

## **SECTION 2.3**

### **Source and Secondary Source of Injury or Illness**

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\*-Asterisks denote a summary level code not assigned to individual cases.

## 2.3.1 Source and Secondary Source of Injury or Illness—Definition, Rules of Selection

### 3.0 DEFINITION

The Source and Secondary Source identify the objects, substances, equipment, and other factors that were responsible for the injury or illness incurred by the worker or that precipitated the event or exposure. The Source and Secondary Source are coded according to the previously identified Event or Exposure as dictated by the Rules of Selection:

#### GENERAL RULES OF SELECTION FOR SOURCE:

#### 3.1 Whole versus part

##### 3.1.1 Part of a machine, tool, or vehicle

If the injury or illness was inflicted by a specific **part** of a **machine, tool, or vehicle**, name the **whole** machine, tool, or vehicle as the source of injury except when:

- the part separated from or was independent of the "whole";
- the event is overexertion involving an outside source;
- the injury was inflicted by an overhead powerline or the electrical cord of an appliance, tool, or machine;
- the injury was inflicted by the floor of a vehicle in a non-transportation incident;
- the injury was inflicted by a separate machine attached to a vehicle, such as a conveyor attached to a truck;
- the incident involved a tractor and agricultural equipment combination.

In those instances, code that part as source.

**Items being transported by a vehicle** are considered part of the vehicle. For example, if a box that is being moved by a forklift strikes a worker while still on the forklift, the forklift is considered the source.

##### 3.1.2 Part of a structure

If the injury or illness was inflicted by a specific **part** of a **structure** (window, door, stairs) name that **part** as the source of injury.

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### 3.2 Containers

When an injury or illness was produced by a filled **container**, name the container, not the contents, as the source unless the injury or illness was directly inflicted by the contents, such as hot liquids or chemicals.

### 3.3 Bodily motion or position

Name **Bodily motion or position** as the source of injury or illness only when the injury resulted solely from the stress or strain induced by the free movement of the body or its parts (voluntary or involuntary), or from the assumption of a strained or unnatural body position.

Bodily motion or position includes injuries or illnesses resulting from reaching, turning, twisting, bending, walking, climbing, running, and from efforts to recover from a loss of equilibrium, provided that the loss of equilibrium does not result in a fall or in forcible contact with an object above the working surface.

Do **not** name **Bodily motion or position** as the source of injury or illness if the injury or illness resulted from any of the following:

- falling,
- bumping into or striking an external object,
- nonrepetitive lifting, pushing, pulling, wielding, or throwing an external object.

For injuries or illnesses in which either **Repetitive motion** or **Sustained viewing** is coded as the event, select bodily motion or position as the source of injury or illness.

### 3.4 Choosing between multiple objects or substances:

3.4.1 Contacts with objects or equipment (event): When an injury results from forcible contact with two or more objects, either simultaneously or in rapid sequence, and it is impossible to determine which object directly produced the injury, select the source as follows:

- When the choice is between a moving object and a stationary object, select the moving object. *Example: If a person is struck by a rolling vehicle and thrown against a post, name the vehicle as the source of injury.*
- When the choice is between two moving objects or between two stationary objects, select that which was contacted last. *Example: If a worker is struck by a roll of paper and then a box and it is unclear which caused the head injury, code the box as the source.*

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3.4.2 When an injury or illness results from two or more different objects or substances, all of which contributed to producing the injury or illness, select the source code as follows:

- Select the "Multiple" code for that combination of objects and substances if one exists at the appropriate level;
- When the two objects or substances are in the same division and there is no appropriate "Multiple" code, select the divisional n.e.c. code for that division. If they are in the same group within a division, select the group n.e.c.;
- When the two objects or substances are not in the same division, use the code for **Other sources, n.e.c.**

### 3.5 **Weather, atmospheric conditions, and geological events**

Select **Weather and atmospheric conditions** or geological events—**Floods, Earthquakes, Avalanches**—as the source of injury or illness when that is the only possible source identified.

*For example, if a worker sustained multiple injuries in an earthquake, and no other source could be determined, select earthquake as the source of injury. However, if an employee were driving in a rainstorm and was injured in an automobile accident, select the vehicle as the source.*

## **GENERAL RULES OF SELECTION FOR SECONDARY SOURCE:**

### 3.6 **Codes to be used**

Use the Source of Injury or Illness Classification Structure for coding secondary source of injury or illness.

### 3.7 **When two objects or substances contributed to an event**

In the absence of a specific rule, if **two objects or substances** contributed to an event, name the object, or substance which was not selected as the source. If more than two objects, substances, other than source, are involved, select:

- powered or energized objects over nonpowered objects,
- moving objects over nonmoving objects,
- objects actively contributing to the event over passive objects.

### 3.8 **Weather, atmospheric conditions, and geological events**

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Select **Weather and atmospheric conditions** or geological events—**Floods, Earthquakes, Avalanches**—as the secondary source of injury or illness when that is the only possible secondary source identified.

*For example, if a worker sustained multiple injuries when struck by an object in an earthquake, select earthquake as the secondary source.*

### 3.9 **No contributing factors**

If **no object, substance, or person** is determined to meet the definition and rules listed above, no secondary source is selected. Objects which inflict an injury, but which neither generated the source nor contributed to the event, should not be selected as the secondary source.

*For example, if a worker falls from a vehicle in a transportation incident and is injured when hitting the road surface, the road is not selected as the secondary source.*

## **RULES OF SELECTION BASED ON EVENT OR EXPOSURE:**

### 3.10 **Violence and other injuries by person or animal**

**Source:** Name the person or animal responsible for the injury or illness.

**Secondary source:** Name the injury-producing weapon, object, or substance, if any.

**Example:** *If a robber shoots a store clerk in the leg with a handgun, the source would be robber and the secondary source would be the handgun.*

### 3.11 **Transportation incidents**

**Source:** Name the vehicle the worker was in or on at the time of the incident. If the worker was struck by a vehicle while on foot, name the vehicle which struck him or her.

**Secondary source:** Name the object or vehicle with which the worker's vehicle collided, if any. If no collision occurred, then name the contributing object or substance, such as ice, rain, etc. And if two objects were struck, code the object that most likely caused the injury.

**Example:** *If the worker was driving a semitrailer that collided with a passenger van, the source would be the semitrailer and the secondary source would be the passenger van.*

**Example:** *If the worker was driving a tractor pulling a plow, fell from the tractor and was struck by the plow, the source would be the tractor and the secondary source would be the plow.*

### 3.12 **Fires and explosions**

\*-Asterisks denote a summary level code not assigned to individual cases.

**Source:** Name the burning substance or object or the item that exploded.

**Secondary source:** Name the ignition source or contributing factor, if known.

**Example:** *If a firefighter was burned while extinguishing an electrical fire in a warehouse, the source would be warehouse, and the secondary source would be electrical wiring.*

### 3.13 Falls, slips, trips

#### 3.13.1 Slips and trips without falls

**Source:** Name bodily motion as the source when a musculoskeletal injury results.

**Secondary source:** Name the object or substance that contributed to the slip or trip, if known.

**Example:** *If a worker trips over a box on the floor and suffers a sprain in recovering, bodily motion is the source and the box is the secondary source.*

#### 3.13.2 Falls on same level

**Source:** Name the surface on or from which the worker fell.

**Secondary source:** Name the object or substance, if any, that contributed to the worker's fall.

**Example:** *If a worker slips on a patch of ice in the parking lot and falls breaking her wrist, the source will be the parking lot and the ice will be the secondary source.*

#### 3.13.3 Falls to lower level

**Source:** Name the equipment or part of the structure (structural element) from or through which the worker fell.

**Secondary source:** Name the object or substance, if any, that contributed to the worker's fall.

**Example:** *If a worker fell to the ground after the roof truss on which he was standing gave way, the source would be the roof truss. The secondary source is left blank because no contributing factor other than the roof truss was mentioned.*

### 3.14 Contact with objects and equipment

**Source:** Name the object or substance that directly injured the worker.

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**Secondary source:** Name the object or substance, if any, that contributed to the contact. For falling objects, name the equipment from which the object fell.

**Example:** *If a worker is injured from a box falling from a forklift, the box is named as the source, and the forklift is selected as the secondary source.*

### 3.15 Exposure to harmful substances or environments

**Source:** Name the substance or environmental condition that injured the worker.

**Secondary source:** Name the object or environment through which the worker was exposed.

**Example:** *If a worker suffers heat exhaustion while cleaning the interior of a tanker truck, heat would be named as the source and the tanker truck interior (under confined spaces) would be the secondary source.*

**Example:** *For indirect contacts with electric current: If a worker is electrocuted from contacting a ladder touching a power line, code the ladder as the source, and the power line as the secondary source.*

### 3.16 Overexertion and bodily reaction

#### 3.16.1 Overexertion involving outside sources

**Source:** Name the object over which the worker was exerting physical effort.

**Secondary source:** Name any contributing object or substance, if any.

**Example:** *If a worker strains her back while lifting a box, code the box as the source. Leave secondary source blank since there was no contributing object or substance.*

#### 3.16.2 Repetitive motion and bodily reaction

**Source:** Name bodily motion or position of the injured, ill worker.

**Secondary source:** Name the contributing equipment, object, or substance, if any.

**Example:** *If a worker suffers tendonitis in the wrist from cutting meat all day, the source is bodily motion and the secondary source is the knife.*

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### **2.3.2 Source of Injury or Illness; Secondary Source of Injury or Illness—Titles and Descriptions**

The Source of Injury or Illness code structure is arranged in nine divisions, 1 through 9. Division 9 contains codes for classifying sources that are not classified or listed under any of the other divisions. The Secondary Source of Injury or Illness uses the Source of Injury or Illness titles and descriptions.

The Source of Injury or Illness divisions are arranged as follows:

<u>DIVISION</u>	<u>TITLE</u>
1	Chemicals and Chemical Products
2	Containers, Furniture, and Fixtures
3	Machinery
4	Parts and Materials
5	Persons, Plants, Animals, and Minerals
6	Structures and Surfaces
7	Tools, Instruments, and Equipment
8	Vehicles
9	Other Sources
9999	Nonclassifiable

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**1\* CHEMICALS AND CHEMICAL PRODUCTS**

This division includes chemicals and chemical products in various states—liquids, gases, fumes, vapors, and solids. In general, the specific chemical codes (major groups 11-17) should be used when the specific chemical or type of chemical is known. When only the type of product is known, the appropriate code for the product (major group 18) should be used. There is one exception to this rule. When the source of injury is a drug, alcohol, or medicine taken internally, use a code in section 184. Unspecified vapors or fumes—either toxic or nontoxic—that are not the product of combustion should be coded Chemicals and chemical products, unspecified, code 10. Carbon monoxide resulting from the incomplete combustion of fuels or that is contained in motor vehicle exhaust gas, blast furnace gas, or kiln vapor is coded 1741, carbon monoxide. Tobacco smoke is coded 9242. Smoke from a burning fire is coded 9243, Smoke, fire gases, n.e.c. unless the specific chemical that injured the worker is known.

*Includes:* acids; alkalis; aromatics and hydrocarbon derivatives; halogens and their compounds; metallic dusts, powders and fumes; agricultural chemicals and pesticides; coal, natural gas, petroleum fuels and products; other chemicals and chemical products

*Excludes:* tars and sealants (46\*); metallic minerals (54\*); nonmetallic minerals, except fuel (55\*); smoke and fire gases (924\*); scrap, waste, debris unless specified as chemical (94\*); nonchemical steam and vapors (95\*); vermiculite (559)

**10 Chemicals and chemical products, unspecified**

*Includes:* unspecified vapors or fumes

**11\* Acids and alkalis**

This group includes acids and alkalis of various types.

**110 Acids and alkalis, unspecified**

**111\* Acids**

*Includes:* organic and inorganic acids

*Excludes:* benzoic and phenylacetic acids (as herbicides) (154); LSD (1842); hydrogen sulfide (1771)

**1110 Acids, unspecified**

**1111 Acetic acid, vinegar**

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## SOURCE

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**1112 Hydrogen chloride, hydrochloric acid**

*Anhydrous hydrochloric acid*

*Chlorohydric acid*

*Hydrochloric acid gas*

**1113 Hydrogen fluoride, hydrofluoric acid**

*Anhydrous hydrofluoric acid*

*Fluorohydric acid gas*

*Hydrofluoric acid gas*

**1114 Nitric acid**

*Aqua fortis*

*Red fuming nitric acid (RFNA)*

*White fuming nitric acid (WFNA)*

**1115 Sulfuric acid**

*Battery acid*

*Drain and oven cleaners containing sulfuric acid*

**1118 Multiple acids**

**1119 Acids, n.e.c.**

*Acetylsalicylic acid*

*Acrylic acid*

*Adipic acid*

*Alkanesulfonic acid*

*Anhydrous hydriodic acid*

*Anhydrous hydrobromic acid*

*Aqueous hydrogen bromide*

*Aqueous hydrogen chloride*

*Aqueous hydrogen fluoride*

*Aqueous hydrogen iodide*

*Arsenic acid*

*Arsenous acid*

*Benzoic acid*

*Bromic acid*

*Bromoacetic acid*

*Bromous acid*

*Butyric acid*

*Capric acid*

*Caproic acid*

*Caprylic acid*

*Carbazotic acid*

*Carbonic acid*

*Chloric acid*

*Hyposulfurous acid*

*Iodic acid*

*Iodoacetic acid*

*Isobutyric acid*

*Isocyanic acid*

*Isopentoic acid*

*Lauric acid*

*Manganic acid*

*Metaboric acid*

*Metaphosphoric acid*

*Methacrylic acid*

*Metsilicic acid*

*Monofluorophosphoric acid*

*Muriatic acid*

*Nitrohydrochloric acid*

*Nitrous acid*

*Nitroxanthic acid*

*Nitroxyl acid*

*Oleic acid*

*Orthoboric acid*

*Orthoperiodic acid*

*Orthosilicic acid*

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## SOURCE

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<i>Chloroacetic acid</i>	<i>Orthotelluric acid</i>
<i>Chlorobutyric</i>	<i>Oxalic acid</i>
<i>Chloroisocyanuric acid</i>	<i>Palmitic acid</i>
<i>Chloropropionic acid</i>	<i>Peracetic acid</i>
<i>Chlorosulfonic acid</i>	<i>Perchloric acid</i>
<i>Chlorous acid</i>	<i>Perchromic acid</i>
<i>Chromic acid</i>	<i>Performic acid</i>
<i>Cyanic acid</i>	<i>Periodic acid</i>
<i>Cyanoacetic</i>	<i>Permanganic acid</i>
<i>Dichloroacetic acid</i>	<i>Perrhenic acid</i>
<i>Dichloropropionic acid</i>	<i>Persulfuric acid</i>
<i>Dichromic acid</i>	<i>Pertechnic acid</i>
<i>Difluorophosphoric acid</i>	<i>Phenol trinitrate</i>
<i>Diphosphoric acid</i>	<i>Phenylacetic acid</i>
<i>Diphosphorous acid</i>	<i>Phenylstearic acid</i>
<i>Disulfuric acid</i>	<i>Phosphoric acid</i>
<i>Disulfurous acid</i>	<i>Phosphorous acid</i>
<i>Dithionic acid</i>	<i>Phthalic acid</i>
<i>Dithionous acid</i>	<i>Picric acid</i>
<i>Etching acid, liquid, n.o.s.</i>	<i>Picronitric acid</i>
<i>Fluoboric acid</i>	<i>Polyacrylic acid</i>
<i>Fluoroacetic acid</i>	
<i>Fluoroboric acid</i>	<i>Polymethacrylic acid</i>
<i>Fluorosulfonic acid</i>	<i>Propionic acid</i>
<i>Formic acid</i>	<i>Rhenic acid</i>
<i>Hexafluorophosphoric acid</i>	<i>Salicylic acid</i>
<i>Hexanoic acid</i>	<i>Sebacic acid</i>
<i>Hydriodic acid gas</i>	<i>Selenic acid</i>
<i>Hydrobromic acid</i>	<i>Stearic acid</i>
<i>Hydrocyanic acid</i>	<i>Sulfoxylic acid</i>
<i>Hydrofluorosilicic acid</i>	<i>Sulfurous acid</i>
<i>Hydrogen bromide</i>	<i>Technetic acid</i>
<i>Hydrogen iodide</i>	<i>Thioglycolic acid</i>
<i>Hypobromous acid</i>	<i>Trichloroacetic acid</i>
<i>Hypochlorous acid</i>	<i>Trinitrophenol</i>
<i>Hypoiodous acid</i>	<i>Triphosphoric acid</i>
<i>Hyponitrous acid</i>	<i>Valeric acid</i>
<i>Hypophosphorous acid</i>	

### 112\* Alkalies

This major group includes chemicals commonly known as alkalies, bases, or caustics. Caustic, unspecified should be coded as 1120. Dry cement mix is coded as 1121 and wet cement mix as 1122. Calcium hydroxide and calcium oxide are included under 1123, Lime. Lye and products, such

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## SOURCE

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as drain and oven cleaners containing lye, are included under 1125, sodium and potassium hydroxide, potassium carbonate. Chlorinated lime is included under chlorine and chlorine compounds, n.e.c., code 1319.

**1120 Alkalies, unspecified**

**1121 Cement, mortar mix—dry**

**1122 Cement, mortar mix—wet**

**1123 Lime**

<i>Burnt lime</i>	<i>Pebble lime</i>
<i>Calcium hydroxide</i>	<i>Quick lime</i>
<i>Calcium oxide</i>	<i>Slaked lime</i>
<i>Calx</i>	<i>Unslaked lime</i>
<i>Fluxing lime</i>	

**1124 Limestone, calcium carbonate**

**1125 Sodium and potassium hydroxide, potassium carbonate**

<i>Carbonate of potash</i>	<i>Oven cleaner containing lye</i>
<i>Caustic potash</i>	<i>Pearl ash</i>
<i>Caustic soda</i>	<i>Potassium carbonate</i>
<i>Drain cleaner containing lye</i>	<i>Potassium hydroxide</i>
<i>Lye</i>	<i>Sodium hydroxide</i>

**1128 Multiple alkalies**

**1129 Alkalies, n.e.c.**

<i>Baking soda</i>	<i>Sodium bicarbonate</i>
<i>Soda ash</i>	<i>Sodium carbonate</i>

**12\* Aromatics and hydrocarbon derivatives, except halogenated**

This major group includes alcohols, aldehydes, amines, aromatics, ethers, ketones, peroxides, and nitro hydrocarbons, except for those containing the halogens—chlorine, fluorine, bromine, iodine, or astatine. Halogenated compounds are included under major group 13.

*Includes:* alcohols, antifreeze, aldehydes, amines—nonaromatic, aromatics, ethers, ketones

*Excludes:* halogens and halogen compounds (13\*)

**120 Aromatics and hydrocarbon derivatives, except halogenated, unspecified**

**121\* Alcohols**

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## SOURCE

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This category includes various types of alcohols. Antifreeze and radiator coolant are included in this category as a separate subcategory (1211). Source group 121 should be used to code alcohol as the source of injury incurred during the manufacture of alcoholic beverages. Alcoholic beverages, code 1841, should be selected when alcohol is used as a beverage.

### **1210 Alcohols, unspecified**

#### **1211 Antifreeze**

*Radiator coolant*

*Radiator fluid*

#### **1212 Ethanol**

*Cologne spirit*

*Ethyl alcohol*

*Ethyl hydrate*

*Ethyl hydroxide*

*Grain alcohol*

*Methylated spirit*

*Spirit of wine*

#### **1213 Ethylene glycol**

*1,2-Ethanediol*

*Glycol*

*Glycol alcohol*

*EG*

#### **1214 Methanol**

*Carbinol*

*Methyl alcohol*

*Wood alcohol*

*Wood spirits*

#### **1219 Alcohols, n.e.c.**

*Allyl alcohol*

*Amyl alcohol*

*Butyl alcohol*

*Dimethyl carbinol*

*Fusel oil*

*Glycerol*

*Isopropanol*

*Isopropyl alcohol*

*n-butyl alcohol*

*n-propyl alcohol*

*Pentyl alcohols*

*Propanol*

*Propenyl alcohol*

*Propyl alcohol*

*Propylene glycol*

*Rubbing alcohol*

*Secondary propyl alcohol*

*Vinyl carbinol*

### **122\* Aldehydes**

#### **1220 Aldehydes, unspecified**

#### **1221 Formaldehyde**

*Formic aldehyde*

*Methyl aldehyde*

*Methylene oxide*

*Oxomethane*

*Oxymethylene*

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## SOURCE

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### 1222 Glutaraldehyde

### 1229 Aldehydes, n.e.c.

<i>2-Furaldehyde</i>	<i>Ethyl aldehyde</i>
<i>Acetaldehyde</i>	<i>Formalin</i>
<i>Acetic aldehyde</i>	<i>Furfural</i>
<i>Acraldehyde</i>	<i>Furfuraldehyde</i>
<i>Acrolein</i>	<i>Furol</i>
<i>Acrylic aldehyde</i>	<i>Propenol</i>
<i>Allyl aldehyde</i>	<i>Propionaldehyde</i>
<i>Butyraldehyde</i>	<i>Pyromucic aldehyde</i>

### 123\* Aromatics

This group contains the cyclical hydrocarbons based on the benzene ring. They are also known as the aromatics. Aromatic amines are included in this group. The nonaromatic amines are coded under 1299.

### 1230 Aromatics, unspecified

#### 1231 Benzene

<i>Benxole</i>	<i>Cyclohextriene</i>
<i>Benzol</i>	<i>Phene</i>
<i>Coal naphtha</i>	<i>Phenyl hydride</i>

#### 1232 Hydroquinone

<i>Benzene-1,4-diol</i>	<i>Quinol</i>
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#### 1233 Toluene

<i>Methylbenzene</i>	<i>Phenylmethane</i>
<i>Methylbenzol</i>	<i>Toluol</i>

#### 1234 Xylene

<i>Dimethylbenzene</i>	<i>Xylol</i>
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#### 1235 Phenol

<i>Carbolic acid</i>	<i>Hydroxybenzene</i>
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#### 1236 Styrene

<i>Ethenyl benzene</i>	<i>Phenylethylene</i>
<i>Styrol</i>	<i>Vinyl benzene</i>

#### 1239 Aromatics, n.e.c.

<i>2-Acetylaminofluorene</i>	<i>Aminodiphenyl</i>
<i>2-Chloroaniline</i>	<i>Aniline</i>
<i>3,3'-Dichlorobenzidine</i>	<i>Benzidine</i>

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## SOURCE

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<i>4-Dimethylaminoazobenzene</i>	<i>Butter yellow</i>
<i>alpha-, beta- Naphthylamine</i>	<i>Methyl yellow</i>
<i>Aminobenzene</i>	<i>Moca</i>

### 124\* Ketones

This group includes acetone, diacetyl, methyl ethyl ketone, and methyl n-butyl ketone as well as other ketones

#### 1240 Ketones, unspecified

##### 1241 Acetone

<i>2-Propanone</i>	<i>Dimethyl ketone</i>
<i>Propanone</i>	<i>Pyroacetic ether</i>

##### 1242 Diacetyl

<i>Butanedione</i>	<i>2,3-butanedione</i>
<i>Biacetyl</i>	<i>Dimethyl diketone</i>

##### 1243 Methyl ethyl ketone

<i>Butanone</i>	<i>MEK</i>
<i>Ethyl methyl ketone</i>	

##### 1244 Methyl n-butyl ketone

##### 1249 Ketones, n.e.c.

<i>Methyl isobutyl ketone</i>	
<i>Methyl n-propyl ketone</i>	

### 128 Multiple aromatics and hydrocarbon derivatives, except halogenated

### 129\* Other aromatics and hydrocarbon derivatives, except halogenated

##### 1291 Acrylamide

##### 1292 Acrylonitrile

##### 1293 Dimethylformamide

##### 1294 Dioxane

*1, 4-Dioxane*

##### 1295 Ethylene oxide

<i>Anprolene</i>	<i>Dimethylene oxide</i>
<i>1,2-Epoxyethane</i>	<i>Oxirane</i>

##### 1296 Nitro hydrocarbons, except aromatic

<i>2-Nitropropane</i>	<i>Dinitrophenol (DNP)</i>
<i>4-Nitrobiphenyl</i>	<i>Dinitrotoluene (DNT)</i>

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## SOURCE

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<i>Acridine</i>	<i>Hydrazine</i>
<i>Aliphatic and organic nitrogen compounds</i>	<i>Nitrobenzene</i>
<i>Dinitrobenzene</i>	<i>Nitroethane</i>
<i>Dinitro-o-cresol</i>	

### 1299 Aromatics and hydrocarbon derivatives, except halogenated, n.e.c.

<i>2-hexanone</i>	<i>Ethyl ether</i>
<i>Amines—nonaromatic</i>	<i>Ethyl oxide</i>
<i>Anesthetic ether</i>	<i>Isopropyl amine</i>
<i>Butyl amine</i>	<i>Lithium peroxide</i>
<i>Diacetone</i>	<i>MBK</i>
<i>Diacetone alcohol</i>	<i>Mesityl oxide</i>
<i>Diethyl ether</i>	<i>Methyl amine</i>
<i>Diethyl oxide</i>	<i>Methyl ether</i>
<i>Dimethyl ether</i>	<i>Methyl ethyl ether</i>
<i>Ether</i>	<i>Propyl acetone</i>
<i>Ethoxyethane</i>	<i>Propyl amine</i>
<i>Ethyl amine</i>	<i>Vinyl ether</i>

### 13\* Halogens and halogen compounds

This major group contains the halogens—bromine, chlorine, fluorine, iodine, and astatine—and their compounds. Halogenated hydrocarbons, such as carbon tetrachloride, and the fluorocarbons are included in this group. Compounds containing both fluorine and chlorine should be coded under Fluorine and fluorine compounds, 132.

Vinyl chloride and polyvinyl chloride are included under plastics, resins, code 1759. Chlorinated hydrocarbons used as insecticides should be classified under 155. Acids containing the halogens are included under source group 111, Acids.

This group includes table salt and calcium, sodium, and potassium chlorides (1319) when these chemicals are specified. Unspecified salt, rock salt, ice-melting salt, and road salt are classified in Chemical products, n.e.c., code 1899, when the specific chemical is not identified.

*Includes:* bromine and bromine compounds, chlorine and chlorine compounds, fluorine and fluorine compounds, iodine and iodine compounds

*Excludes:* acids containing halogens (111\*); insecticides (155); nonchlorine bleaches (1831); vinyl chloride, polyvinyl chloride (1759); lead salts (144)

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## SOURCE

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- 130 Halogens and halogen compounds, unspecified**
- 131\* Chlorine and chlorine compounds**
- 1310 Chlorine compounds, unspecified**
- 1311 Chlorine, chlorine bleach**
- 1312 Dichloromethane**  
*Methylene chloride*
- 1313 Perchloroethylene**  
*Tetrachlorethylene*
- 1314 Phosgene**
- 1315 Trichloroethylene**
- 1319 Chlorine compounds, n.e.c.**
- |                             |                                  |
|-----------------------------|----------------------------------|
| <i>Biphenyls</i>            | <i>PCBs</i>                      |
| <i>Calcium chloride</i>     | <i>Pentachlorophenol</i>         |
| <i>Carbon chloride</i>      | <i>Polychlorinated biphenyls</i> |
| <i>Carbon tetrachloride</i> | <i>(PCBs)</i>                    |
| <i>Chlorinated lime</i>     | <i>Polychlorinates</i>           |
| <i>Chloroethane</i>         | <i>Potassium chloride</i>        |
| <i>Chloroform</i>           | <i>Sodium chloride</i>           |
| <i>Chloromethane</i>        | <i>Table salt</i>                |
| <i>Ethyl chloride</i>       | <i>Tetrachloromethane</i>        |
| <i>Methyl chloride</i>      | <i>White potash</i>              |
| <i>Muriate of potash</i>    |                                  |
- 132\* Fluorine and fluorine compounds**
- 1320 Fluorine compounds, unspecified**
- 1321 Fluorine**
- 1322 Fluorotrichloromethane**
- |                                   |                                   |
|-----------------------------------|-----------------------------------|
| <i>Freon</i>                      | <i>Trichlorofluoromethane</i>     |
| <i>Monofluorotrichloromethane</i> | <i>Trichloromonofluoromethane</i> |
| <i>Refrigerant 11</i>             |                                   |
- 1329 Fluorine compounds, n.e.c.**
- |                        |                            |
|------------------------|----------------------------|
| <i>Methyl fluoride</i> | <i>Other fluorocarbons</i> |
|------------------------|----------------------------|
- 139 Halogens and halogen compounds, n.e.c.**
- |                               |                                    |
|-------------------------------|------------------------------------|
| <i>Astatine and compounds</i> | <i>Iodine and iodine compounds</i> |
| <i>Bromine and compounds</i>  | <i>Methyl bromide</i>              |
| <i>Ethylene dibromide</i>     | <i>Potassium bromide</i>           |

\*-Asterisks denote a summary level code not assigned to individual cases.

**14\* Metallic particulates, trace elements, dusts, powders, fumes**

This group includes metallic fumes, particulates, and liquid solutions other than molten metals. Welding fumes as well as fumes from other heating or smelting processes are included. When the injury is due to solid metal ores or due to the radiation properties of a metal, use Metallic minerals, major group 54\*.

Finished metal products should be coded under the appropriate functional category.

*Includes:* arsenic and compounds; beryllium and compounds; cadmium and compounds; lead and compounds; mercury and compounds; aluminum and compounds; antimony and compounds; chromium and compounds including hexavalent chromium; iron and compounds; magnesium and compounds; manganese and compounds; nickel and compounds; zinc and compounds; welding or soldering fumes, unspecified or n.e.c.; metallic dusts

*Excludes:* finished metal products; molten or solid metals (45\*); radiating metals (542\*); coal dust (161); grain dust (5891); other nonmetallic dusts (55\*, 941\*)

**140 Metallic particulates, trace elements, dusts, powders, fumes, unspecified**

**141 Arsenic and compounds**

**142 Beryllium and compounds**

**143 Cadmium and compounds**

**144 Lead and compounds**

This code includes both organic and inorganic lead compounds. Lead chromate is coded in Chromium and chromium compounds.

*Alkyl lead*

*Lead acetate*

*Lead arsenate*

*Lead dioxide*

*Lead oxide*

*Lead salts*

*Lead soaps*

*Tetraethyl lead*

*Tetramethyl lead*

**145 Mercury and compounds**

**146\* Other metallics and compounds**

**1460 Other metallics and compounds, unspecified**

**1461 Aluminum and compounds**

**1462 Antimony and compounds**

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### **1463 Chromium and compounds**

*Calcium chromate*

*Chromium trioxide*

*Hexavalent chromium*

*Lead chromate*

*Strontium chromate*

*Zinc chromate*

### **1464 Manganese and compounds**

### **1465 Cobalt and compounds**

### **1469 Metallics and compounds, n.e.c.**

*Copper sulfate compounds*

*Iron and compounds*

*Magnesium and compounds*

*Nickel and compounds*

*Zinc and compounds*

### **147 Welding or soldering fumes, unspecified or n.e.c.**

This code includes fumes and vapors from the welding, brazing, soldering, and cutting of galvanized steel as well as other metals, with the exception of lead. Fumes containing lead compounds should be coded under Lead and lead compounds, code 144. Fumes given off by other heat processes including smelting should be coded under the appropriate metal compound, if known. If unknown, the unspecified category 140 should be used.

### **148 Multiple metallics and metallic compounds**

### **149 Metallic particulates, trace elements, dusts, powders, fumes, n.e.c.**

### **15\* Pesticides and other agricultural chemicals**

This category includes such substances as insecticides, pesticides, herbicides, fumigants, rodenticides, and fungicides. These substances should be coded in this category whether used in the agricultural and horticultural industries, by commercial exterminating and pest control companies, or by companies in other industries. Mixtures of plant foods and fertilizers with herbicides are coded under 154, herbicides. Only fertilizers not elsewhere classifiable should be included in code 151. An unspecified pesticide should be coded 150. Calcium hydroxide, calcium oxide, and lime should be classified under code 1123. Ammonium compounds should be classified under code 171\*.

*Includes:* fertilizers and plant food, n.e.c.; fumigants, n.e.c.; fungicides; herbicides; insecticides; rodenticides

*Excludes:* ammonium compounds (171\*); calcium hydroxide, calcium oxide, lime (1123); muriate of potash, white potash (1319); phosphine (1794)

### **150 Pesticides and other agricultural chemicals, unspecified**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### 151 Fertilizers, plant food, n.e.c.

This code includes fertilizers and plant foods not elsewhere classifiable. Mixtures of fertilizers and plant foods with herbicides are included under 154, Herbicides.

*Superphosphates*

### 152 Fumigants, n.e.c.

Included in this category are substances in the form of "smoke" or fumes used as an exterminating agent and that are not classifiable elsewhere. Fumigants used as disinfecting agents are classified under code 1832, if the specific chemical is unknown.

### 153 Fungicides

Included in this category are the various substances used to destroy or control the growth of fungi within an agricultural or horticultural setting. Fungicides used in other commercial or industrial settings should be coded under Cleaning and polishing agents, code 183\*.

*Dithiocarbamates*

*Ferban*

*Maneb*

*Nabam*

*Organic mercurials (used in seed dressing)*

*Zineb*

*Ziram*

### 154 Herbicides

Chemicals in this code are used to control plant growth of various types. This category includes weed killers as well as mixtures of plant foods and fertilizers with herbicides.

*2,3,6-TBA*

*2,4-D*

*2, 4-DEP*

*2,4,5-T*

*Agent orange*

*Atrazine*

*Benzoic acids*

*Bipyridyls*

*Carbamate herbicides*

*Chlorates*

*Chlorfenec*

*Crag herbicide*

*Delapon*

*Dinitro-orthoeresol (DNOC)*

*Dinoseb (DNBP)*

*Diquat*

*Diuron*

*Erbon*

*Fenuron*

*MCPA*

*MCPB*

*Monuron*

*Paraquat*

*Phenylacetic acids*

*Silvex*

*Simazine*

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Dicamba* *Thiocarbamate herbicides*  
*Dinitro compounds* *Triazines*  
*Dinosam (DNAP)* *Vapam*  
*2, 4, 5-Trichlorophenoxyacetic acid (2, 4, 5-T)*  
*-(2,4,5-trichlorophenoxy) propionic acid*  
*4-chloro-2-methylphenoxyacetic acid*  
*2-chloro-4, 6-bis(ethylamino)-S-triazine*  
*Mixtures of plant foods and fertilizers with herbicides*

### 155 Insecticides

This code includes various chemicals used to control insects and includes organochlorine compounds or chlorinated hydrocarbons; organophosphorus compounds; carbamates; and other compounds.

*Kerosene insecticides*  
*Pyrethrum*  
*Rotenone*

### 156 Rodenticides

Included in this category are various substances used to destroy or control mice, rats, squirrels, and other rodents.

*Coumarins* *Squill and derivatives*  
*Diphacin* *Strychnine*  
*Fluoroacetates* *Thallium sulfate*  
*Indandiones* *Valone*  
*Pival (Pivalyn)* *Warfarin*  
*Sodium fluoroacetate* *Zinc phosphide*

### 158 Multiple agricultural chemicals

This category includes combinations of agricultural and horticultural chemicals or pesticides, when these chemicals are classifiable under two or more different 3-digit categories. Excluded from this category are mixtures of fertilizers or plant foods and herbicides (154).

### 159 Pesticides and other agricultural chemicals, n.e.c.

This category includes other agricultural chemicals and pesticides not classifiable elsewhere.

### 16\* Coal, natural gas, petroleum fuels and products

This category includes coal, natural gas, petroleum, and petroleum fuels and

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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distillates. Excluded from this category are petroleum solvents (187\*), and pesticides and other agricultural chemicals (major group 15).

*Includes:* coal, coal dust, coke, crude oil, gasoline, natural gas, petroleum, petroleum distillates and fuels, lubricating greases and oils, paving asphalt, asphaltic cement

*Excludes:* pesticides and other agricultural chemicals (15\*); paints (186\*); petroleum solvents (187\*); roofing asphalt, roofing tar (461)

### **160 Coal, natural gas, petroleum fuels and products, unspecified**

#### **161 Coal, coal dust**

#### **162 Natural gas**

#### **163 Petroleum, crude oil**

### **164\* Petroleum fuels, distillates, and products, n.e.c.**

#### **1640 Petroleum fuels, distillates, and products, unspecified**

#### **1641 Gasoline, diesel fuel, jet fuel**

*Kerosene used as jet fuel*

#### **1642 Lubricating greases, cutting oils**

*Metalworking fluids*

#### **1643 Propane**

#### **1644 Paving asphalt, asphaltic cement**

*Excludes:* roofing asphalt and roofing tar (461)

#### **1649 Petroleum fuels, distillates, and products, n.e.c.**

*Coke—petroleum*

*Heating oil*

*Kerosene (except jet fuels)*

### **169 Coal, natural gas, petroleum fuels and products, n.e.c.**

*Butane*

*Coke—coal*

### **17\* Other chemicals**

This category includes ammonia and its compounds, cryogenic gases, certain cyanide compounds, oxygen and certain oxides, plastics and resins, sewer and mine gas, methane, sulfur and sulfur compounds, and other chemical and chemical products not elsewhere classifiable.

*Includes:* ammonia and ammonium compounds; carbon dioxide, carbon

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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monoxide; cryogenic gases; cyanide and cyanide compounds, n.e.c.; dry ice; methane, mine gas; oxygen and oxygen compounds, n.e.c.; plastics, resins; sewer gas; sulfur, sulfur compounds, sulfur dioxide

### **170 Other chemicals, unspecified**

### **171\* Ammonia and ammonium compounds**

This group includes ammonia in various forms as well as ammonium compounds. This group includes ammonium compounds used as fertilizers, cleansers, explosives, etc.

#### **1710 Ammonia and ammonium compounds, unspecified**

#### **1711 Ammonia, anhydrous ammonia**

#### **1712 Ammonium sulfate**

#### **1718 Multiple ammonia and ammonium compounds**

#### **1719 Ammonia and ammonium compounds, n.e.c.**

*Ammonium hydroxide*

*Ammonium nitrate*

### **172 Cryogenic gases**

This group includes liquefied gases at very low temperatures.

*Includes:* liquid helium, hydrogen, nitrogen, oxygen; liquefied argon, krypton, neon

### **173\* Cyanide and cyanide compounds**

This group includes cyanide and its compounds, not elsewhere classifiable. Cyanates and isocyanates that are used in the manufacture of plastics are coded under Plastics, resins—code 175\*.

#### **1730 Cyanide and cyanide compounds, unspecified**

#### **1731 Hydrogen cyanide**

#### **1739 Cyanide and cyanide compounds, n.e.c.**

### **174\* Oxygen and oxygen compounds**

This group includes carbon monoxide, carbon dioxide, dry ice, various nitrogen oxides, nonliquefied oxygen, and ozone. Carbon monoxide resulting from the incomplete combustion of fuels and that contained in motor vehicle exhaust gas, blast furnace gas, or kiln vapor is included in 1741. Smoke and fire gases are included in codes 924\*. Liquefied oxygen is coded under 172, Cryogenic gases. Sulfur dioxide is coded

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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1773. Nitrogen is coded 1791. Ethylene oxide is coded 1295.

### **1740 Oxygen and oxygen compounds, unspecified**

#### **1741 Carbon monoxide**

*Blast furnace gas*

*Kiln vapor*

*Motor vehicle exhaust gas*

*Results of incomplete combustion of fuels*

#### **1742 Carbon dioxide, dry ice**

#### **1743 Nitrogen oxides**

*Dinitrogen pentoxide*

*Nitrogen dioxide*

*Dinitrogen tetroxide*

*Nitrogen oxide*

*Laughing gas*

*Nitrous oxide*

*Nitric oxide*

*Nitrous trioxide*

*Other oxides of nitrogen*

#### **1744 Osmium tetroxide**

#### **1748 Multiple oxygen and oxygen compounds**

#### **1749 Oxygen and oxygen compounds, n.e.c.**

*Benzoyl peroxide*

*Ozone*

*Hydrogen peroxide*

*Potassium peroxide*

*Non-liquid oxygen*

*Sodium peroxide*

*Oxygen gas, except liquefied*

### **175\* Plastics, resins**

This group includes various substances and intermediate products used in the manufacture of plastics and resins, including cyanates, resins, urethanes, vinyl chloride, and various elasticizers, monomers, and polymers.

#### **1750 Plastics, resins, unspecified**

*Fumes from unspecified plastics*

#### **1751 Cyanates, urethanes**

*Di-isocyanates*

*Polyurethane*

*Isocyanates*

*Urethane*

*Toluene diisocyanates (TDI)*

*Methylenebis (phenyl isocyanate) MDI*

*Polymeric MDI (PAPI)*

#### **1752 Resins**

\*-Asterisks denote a summary level code not assigned to individual cases.



## SOURCE

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*Acrylic resin*

*Resin*

*Epoxy resin*

*Silicone resin*

**1759 Plastics, resins, n.e.c.**

*Bakelite*

*Polymer*

*Elastomers*

*Polypropylene*

*Ethyl silicate*

*Polystyrene*

*Ethylene diamine*

*Polyvinyl acetate*

*Monomer*

*Polyvinyl chloride*

*Vinyl chloride*

**176\* Sewer, mine, and similar gases**

This group includes sewer and mine gas and fumes that are not classifiable elsewhere. Hydrogen sulfide is classified in 1771.

**1760 Sewer, mine, and similar gases, unspecified**

**1761 Methane gas**

**1762 Mine gas**

**1763 Sewer gas**

**1764 Manure gas**

**1769 Sewer, mine, and similar gases, n.e.c.**

**177\* Sulfur and sulfur compounds**

This group includes carbon bisulfide, hydrogen sulfide, sulfur dioxide, and other sulfur compounds.

*Excludes:* sulfuric acid (1115)

**1770 Sulfur and sulfur compounds, unspecified**

**1771 Hydrogen sulfide**

**1772 Carbon bisulfide**

*Carbon disulfide*

**1773 Sulfur dioxide**

**1778 Multiple sulfur and sulfur compounds**

**1779 Sulfur and sulfur compounds, n.e.c**

**178 Multiple chemicals or chemical mixtures, n.e.c.**

This category is to be used for toxic, noxious, and otherwise injurious fumes, vapors, or chemical exposures resulting from the mixing or combining of chemicals or chemical products from different major groups. This code may also be applicable as the secondary source for explosions

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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resulting from the mixture of two or more chemicals falling in different two-digit categories.

This category also includes cases where two or more chemicals or chemical products falling in different two-digit categories are named as the source or secondary source or when the nonspecific "Multiple chemicals" is the source or secondary source.

### **179\* Other chemicals, n.e.c.**

**1791 Nitrogen**

**1792 Helium**

**1793 Hydrogen**

**1794 Phosphine, phosphane**

**1799 Chemicals, n.e.c.**

*Acetylene*

*Metal plating solutions, unspecified*

*Esters*

*Potting compound hardener*

*Flux*

### **18\* Chemical products—general**

This category includes chemical products of various types. This category should be used only when the specific chemical is unknown or is not classifiable elsewhere.

*Includes:* adhesives, alcoholic beverages, beauty products, cleaning agents, cosmetics, drugs, explosives, glues, medicines, paints, lacquers, varnishes, solvents, degreasers

*Excludes:* pesticides (15\*); specified chemicals

#### **180 Chemical products, unspecified**

*Fire extinguisher chemicals, unspecified*

#### **181 Adhesives, glues, n.e.c.**

This group includes adhesives, glues, and pastes that are not elsewhere classified.

#### **182 Beauty preparations, cosmetics**

This code includes beauty preparations and other cosmetics. Soaps, shampoos, and dyes used as hair preparations or cosmetics are classified in this category. Other shampoos, detergents, and soaps used for commercial or industrial purposes are coded to source group 183, Cleaning and polishing agents, n.e.c.

\*-Asterisks denote a summary level code not assigned to individual cases.

<i>Baby oil</i>	<i>Perfumes</i>
<i>Facial cleansing masks</i>	<i>Permanent solutions</i>
<i>Hair dyes</i>	<i>Petroleum jelly</i>
<i>Make-up</i>	<i>Soaps</i>
<i>Face creams</i>	

**183\* Cleaning and polishing agents, disinfectants**

This group includes detergents, bleaches, soaps, polishes, disinfectants, and drain and oven cleaners that are not classifiable to specific chemical categories.

Soaps and shampoos used as hair preparations or as cosmetics are classified under code 182, Beauty preparations and cosmetics. Chlorine bleach and other chlorine-based cleansers are coded under Chlorine and chlorine compounds, code 131\*. Ammonia and ammonia compounds are included under 171\*. Solvents are coded under 187\*. Drain and oven cleaners containing lye are coded under 1125, Sodium and potassium hydroxides; those containing sulfuric acid are coded under 1115. Cleaners containing phosphoric acid are coded under 1119.

**1830 Cleaning and polishing agents, unspecified****1831 Bleach—nonchlorine, nonperoxide****1832 Disinfectants***Fumigants used as disinfecting agents***1833 Drain and oven cleaners****1834 Soap products****1835 Synthetic detergents and shampoos****1838 Multiple cleaning and polishing agents****1839 Cleaning and polishing agents, n.e.c.***Floor strippers**Other cleaners**Polishes**Scouring powders**Toilet cleaners**Metal cleaning compounds***184\* Drugs, alcohol, and medicines**

This category includes prescription drugs, nonprescription or over the counter drugs, as well as alcoholic beverages and drugs used for nonmedicinal purposes. Alcohols in preparations not intended for consumption are coded under 121\*. Alcoholic beverages and nonmedicinal drugs should not be coded for secondary source. Nonmedicinal drugs (1842) include heroin, methamphetamines, marijuana, and other recreational drugs. Drugs that are normally used for

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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medicinal purposes, such as over the counter drugs and prescription drugs, but used recreationally are coded in 1843 Medicines, except vaccines. Vaccines are coded in 1844. Combinations of drugs or alcohol from two or more 4-digit categories are coded in 1848 Multiple drugs, alcohol, and medicines.

**1840 Drugs, alcohol, and medicines, unspecified**

**1841 Alcoholic beverages**

**1842 Drugs—nonmedicinal**

**1843 Medicines, except vaccines**

*Anesthetics*

*Over the counter drugs*

*Prescription drugs*

**1844 Vaccines**

**1848 Multiple drugs, alcohol, and medicines**

**1849 Drugs, alcohol, and medicines, n.e.c.**

**185\* Explosives, blasting agents**

This category includes explosives, materials used as detonators, gunpowder, and fireworks. Excluded from this category are substances classifiable to specific chemical or mineral categories. Ammonium nitrate is coded 1719. Ammunition is included in major group 782.

*Excludes:* explosive devices (7813)

**1850 Explosives, blasting agents, unspecified**

**1851 Dynamite**

**1852 Flammable gas, unspecified**

**1853 Gunpowder**

**1854 Pyrotechnics, fireworks**

**1859 Explosives, blasting agents, n.e.c.**

*Blasting cap*

*Detonator*

**186\* Paint, lacquer, shellac, varnish**

This category includes various types of paints and other finishes such as varnishes, shellacs, and lacquers. Epoxy is coded under 1752, Resins. Urethane and polyurethane are code 1751.

**1860 Paint, lacquer, shellac, varnish, unspecified**

**1861 Lacquer, shellac, varnish**

**1862 Paint**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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**1868 Multiple paint, lacquer, shellac, or varnishes**

**1869 Paint, lacquer, shellac, varnish, n.e.c.**

**187\* Solvents, degreasers**

This category includes solvents and degreasers, not elsewhere classifiable. Carbon tetrachloride, perchloroethylene, and trichloroethylene are coded under Chlorine and chlorine compounds, source group 131.

**1870 Solvents, degreasers, unspecified**

**1871 Naphtha solvents**

*Benzine*

*Cleaners' naphtha*

*Dry cleaning fluid*

*Mineral spirits*

*Petroleum ether*

*Naphtha*

*Naphtha solvents*

*Naphthalene*

*Stoddard solvent*

**1872 Paint removers, thinners**

**1873 2-Butoxyethanol**

**1878 Multiple solvents, degreasers**

**1879 Solvents, degreasers, n.e.c.**

**189\* Other chemical products—general**

This category includes other general chemical products, not elsewhere classifiable.

*Includes:* dyes, inks, photographic and copying solutions, rock salt and road salt when the specific chemical is unknown

**1891 Dyes, inks**

*Excludes:* food dyes (1893), hair dyes (182)

**1892 Photographic and copying solutions**

*Clearing agents*

*Copying machine fluids*

*Developers*

*Film developing solutions*

*Fixers*

*Mimeograph fluid*

*Photographic chemicals*

*Stop baths*

*Surfactants*

*Toners*

**1893 Food colorings and flavorings**

*Food dyes*

**1899 Chemical products, n.e.c.**

\*-Asterisks denote a summary level code not assigned to individual cases.

**SOURCE**

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*Includes:* ice-melting salt, rock salt, road salt, salt,  
unspecified

*Excludes:* table salt (1319)

**19 Chemicals and chemical products, n.e.c.**

\*-Asterisks denote a summary level code not assigned to individual cases.

**2\* CONTAINERS, FURNITURE AND FIXTURES**

This division classifies receptacles that are commonly used to hold, store, or carry materials. All containers may be empty or full. Injuries resulting from contact with the spilt contents of the container should be coded according to the contents that inflicted the injury. Pressurized and nonpressurized containers are fix-shaped receptacles used to hold, store, or carry materials. Variable restraint containers include bundles, packages, and rolls where the material being contained is often the surface of the container. This division also classifies furniture; lighting and plumbing fixtures; and floor, wall, and window coverings. The furniture and fixtures classified here may be of any composition, and may be designed for use in households, businesses, or public buildings.

*Includes:* pressurized containers; nonpressurized containers; variable restraint containers; dishes, cups, glasses; luggage; skids and pallets; septic tanks, cases, cabinets, racks, shelves; floor, wall, and window coverings; furniture; other fixtures

*Excludes:* coffee makers (3321); sleeping bags (7634); storm drains (6122); pipes, ducts, tubing (412\*); heating, cooling, and cleaning machinery and appliances (33\*); audio and video equipment (391\*); car seats (489); plumbing systems (642); structures (63\*); pianos (7931); container covers, caps, lids (491); clocks (791)

**20 Containers, furniture, and fixtures, unspecified**

**21\* Containers**

**210 Containers, unspecified**

**211\* Containers—nonpressurized**

This group classifies containers which are fix-shaped receptacles used to hold, store, or carry materials.

*Includes:* bags, sacks; barrels, drums; bottles, jugs, flasks; boxes, crates, cartons; buckets, baskets, pails; cans; pots, pans, trays; tanks, bins, and vats; air cargo and shipping containers

*Excludes:* pressurized containers (212\*); beer kegs (2126); variable restraint containers (213\*); dishes, drinking cups, and beverage glasses (214\*); luggage (215\*); handbags (2152); skids and pallets (216); groceries (5228); laundry (914);

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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laundry carts (871); toy boxes (2212); lobster and crab pots (795\*)

### 2110 Containers—nonpressurized, unspecified

#### 2111 Bags, sacks

*Includes:* trash bags, grocery bags, laundry bags, biohazard bags

*Excludes:* mail bags—shoulder (2156); handbags (2152); shoulder bags, except mail (2152)

#### 2112 Barrels, drums—except pressurized

*Barrels—coopered wooden*

*Breaker*

*Casks*

*Drums—fiber*

*Firkins*

*Kegs—coopered wooden*

*Kilderkins*

*Milk shipping containers*

*Oil drums*

*Shipping drums*

*Wine barrels*

#### 2113 Bottles, jugs, flasks

*Paper bottles*

*Decanters*

*Hot-water bottles*

*Jars*

*Medicine bottles*

*Vases*

*Milk bottles, jugs*

*Packing bottles*

*Packing jugs*

*Vials*

*Water bottles*

*Thermoses*

#### 2114 Boxes, crates, cartons

*Ammunition boxes*

*Boxes—cardboard*

*Boxes—corrugated*

*Boxes—fiberboard*

*Boxes—filing*

*Boxes—gaylor*

*Boxes—newsboard*

*Boxes—setup*

*Boxes—wooden*

*Cases—plastic utility*

*Cases of paper*

*Portable coolers*

*Toy boxes*

*Chicken coops (crates)*

*Coffins*

*Egg cartons*

*Food boxes*

*Mailing cases*

*Mailing crates*

*Milk, juice, ice cream cartons*

*Shipping crates*

*Shipping hampers*

*Tubes—cardboard*

*Cases of food or beverages*

*Tool boxes*

#### 2115 Buckets, baskets, pails

*Baskets—wicker*

*Flower and fruit baskets*

\*-Asterisks denote a summary level code not assigned to individual cases.



## SOURCE

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- |   |  |
|---|--|
| <i>Baskets—wire</i>                             | <i>Gabion baskets<br/>(unassembled)</i>              |
| <i>Baskets—wooden</i>                           | <i>Laundry baskets</i>                               |
| <i>Buckets—coopered wooden</i>                  | <i>Milk pails</i>                                    |
| <i>Buckets—metal</i>                            | <i>Picnic baskets</i>                                |
| <i>Bushels</i>                                  | <i>Pitchers</i>                                      |
| <i>Dinner pails</i>                             | <i>Shopping hand baskets</i>                         |
|   | <i>Slop pails</i>                                    |
| <b>2116 Cans</b>                                |  |
| <i>Aluminum cans</i>                            | <i>Gasoline cans</i>                                 |
| <i>Beverage cans</i>                            | <i>Milk cans</i>                                     |
| <i>Canisters</i>                                | <i>Oil cans</i>                                      |
| <i>Canned foods</i>                             | <i>Packing cans</i>                                  |
| <i>Foil-fiber cans</i>                          | <i>Tin cans</i>                                      |
| <i>Food cans</i>                                | <i>Trash cans</i>                                    |
| <i>Garbage can</i>                              | <i>Watering cans</i>                                 |
| <i>Paint cans</i>                               |  |
| <b>2117 Pots, pans, trays</b>                   |  |
| <i>Ashtrays</i>                                 | <i>Kettles—nonpressurized</i>                        |
| <i>Baking pans</i>                              | <i>Pans—kitchen</i>                                  |
| <i>Bread pans</i>                               | <i>Pots—kitchen</i>                                  |
| <i>Cake pans</i>                                | <i>Serving trays</i>                                 |
| <i>Dishpans</i>                                 | <i>Skillets</i>                                      |
| <i>Dustpans</i>                                 | <i>Trays—plastic</i>                                 |
| <i>Frying pans</i>                              | <i>Woks</i>  |
| <i>Pots for plants</i>                          | <i>Portable planters</i>                             |
| <i>Flowerpots</i>                               | <i>Teapots</i>                                       |
| <b>2118 Tanks, bins, vats—nonconfined space</b> |  |
| <i>Aquariums</i>                                | <i>Tanks—coopered</i>                                |
| <i>Trash bins</i>                               | <i>Dumpsters</i>                                     |
| <i>Troughs</i>                                  | <i>Tubs—coopered</i>                                 |
| <i>Tubs—excluding bathtubs</i>                  | <i>Melting pots</i>                                  |
| <i>Vats—wooden</i>                              | <i>Laundry bins</i>                                  |
| <i>Septic tanks</i>                             | <i>Tubs—bus or other kitchen</i>                     |
| <i>Postal containers, lugs</i>                  | <i>Harvest lugs</i>                                  |
| <i>Wine vats</i>                                | <i>Vats—stainless steel (except<br/>pressurized)</i> |
| <b>2119 Containers—nonpressurized, n.e.c.</b>   |  |
| <i>Air cargo containers</i>                     | <i>Laundry hampers</i>                               |
| <i>Intermodal shipping containers</i>           |  |

\*-Asterisks denote a summary level code not assigned to individual cases.

**212\* Containers—pressurized**

This group classifies pressurized containers which are fix-shaped receptacles used to hold, store, or carry gases, vapors, or liquids.

*Includes:* boilers; hoses; pressure lines; pressurized tanks and cylinders

*Excludes:* nonpressurized tanks (2118); air compressors (3991); pressure-cooking equipment (332\*); pipes, ducts, tubing (412\*); valves (423)

**2120 Containers—pressurized, unspecified****2121 Boilers**

*Industrial boilers*

*Marine boilers*

*Power boilers*

*Pressure stills*

**2122 Hoses**

*Fire hoses*

*Garden, water hoses*

*Hoses—metal*

*Hoses—plastic*

*Hoses—rubber*

*Pneumatic hoses*

*Pressure hoses*

**2123 Oxygen tanks and cylinders**

*Pressurized oxygen tanks and cylinders*

**2124 Pressure lines, except hoses****2125 Propane tanks and cylinders**

*Pressurized propane tanks and cylinders*

**2126 Beer and soda kegs****2127 Fire extinguishers****2129 Containers—pressurized, n.e.c.**

*Includes:* air receiver tanks, pressure gas tanks, pressure housings, other pressurized cylinders, other pressurized vats, drums—pressurized containers

*Excludes:* pressure cookers (332\*), pressure fryers (3322)

**213\* Containers—variable restraint**

This group classifies containers including bundles, packages, and rolls where the material being contained is usually the surface of the container

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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(that is, the item is not contained by anything distinct).

*Includes:* bundles, bales; packages, parcels; reels, rolls, spools, coils, cones

*Excludes:* nonpressurized containers (211\*); pressurized containers (212\*); pallets (216); boxed parcels and packages (2114)

### **2130 Containers—variable restraint, unspecified**

#### **2131 Bundles, bales**

*Bales of cotton*

*Bundles of shingles*

*Bales of hay*

#### **2132 Packages, parcels**

*Mailing packages, parcels*

*Paper packages, parcels*

#### **2133 Reels, rolls, spools, coils, cones**

*Beams, bolts of fabric*

*Rolls of carpet*

*Reels of metal banding, wire*

*Rolls of fabric*

*Reels of steel wool*

*Rolls of paper*

*Spools of wire*

*Coils of wire*

*Coils of steel*

*Cones of yarn*

*Rolls of linoleum*

*Rolls of roofing paper*

### **2139 Containers—variable restraint, n.e.c.**

### **214\* Dishes, drinking cups, beverage glasses**

This group classifies containers which are commonly used for drinking and eating.

*Includes:* dishes, bowls; drinking cups, beverage glasses

*Excludes:* bottles (2113); pitchers (2115); pots, pans, trays (2117); cooking and eating utensils, except knives (792)

### **2140 Dishes, drinking cups, beverage glasses, unspecified**

#### **2141 Dishes, bowls**

*Bowls—any use or composition*

*Dishes—any use or composition*

*Plates—any use or composition*

#### **2142 Glasses—beverage, drinking cups**

*Beer mugs*

*Glasses—drinking*

*Cups—drinking*

*Wine glasses*

\*-Asterisks denote a summary level code not assigned to individual cases.

*Cups—measuring***2149 Dishes, drinking cups, beverage glasses, n.e.c.****215\* Luggage, handbags**

This category classifies container-carriers which are used for holding and carrying personal belongings.

*Includes:* briefcases; handbags, pocketbooks, wallets, tote bags; backpacks; suitcases, baggage, luggage; computer and laptop cases; mail bags and satchels—shoulder; tool belts

*Excludes:* footlockers, chests (2212); lockers (2215)

**2150 Luggage, handbags, unspecified****2151 Briefcases***Portfolios***2152 Handbags, pocketbooks, wallets, tote bags***Billfolds**Purses**Book bags, except backpacks**Shoulder bags—except mail**Cosmetic pouches**Bags—hand***2153 Suitcases, baggage, luggage***Gym bags**Suit bags**Overnight bags**Flight bags**Carry-on bags**Duffel bags***2154 Computer and laptop cases****2155 Backpacks****2156 Mail bags and satchels—shoulder***Bags—mail satchel**Mail bags—shoulder***2157 Tool belts****2158 Multiple luggage and handbags****2159 Luggage, handbags, n.e.c.***Golf bags**Musical instrument cases***216 Skids, pallets**

This code classifies skids and pallets of any use or composition including those used as working surfaces.

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Includes:* skids, pallets, pallet containers

**218 Multiple types of containers**  
*Luggage and boxes*

**219 Containers, n.e.c.**

This code classifies all containers that are not elsewhere classified in the Containers major group.

**22\* Furniture and fixtures**

**220 Furniture and fixtures, unspecified**

**221\* Cases, cabinets, racks, shelves**

This source group classifies free-standing or built-in cases, cabinets, counters, racks, lockers, and shelves. These items may be designed for household, office, public building, or other use. Items that have been manufactured and ready for installation are included here.

*Includes:* bookcases; display and storage cabinets and cases; counters, counter tops; garment and other racks; lockers; partitions; shelving; cages

*Excludes:* boxes, crates, cartons (2114); refrigerated lockers (3314); cases of food or other product (2114); cases of paper (2114); entertainment centers (2239)

**2210 Cases, cabinets, racks, shelves, unspecified**

**2211 Bookcases**

*Bookcases—any composition*  
*Bookcases—built-in*

*Bookcases—free-standing*

**2212 Cabinets, cases—display, storage**

*Cedar chests*

*China cabinets*

*Footlockers*

*Kitchen cabinets*

*Medicine cabinets*

*Cabinets, cupboard doors*

*Safes*

*Office or file cabinets*

*Showcases*

*Tool chests*

*Toy chests, boxes*

*Treasure chests*

*Filing cabinets*

*Bathroom vanities*

**2213 Counters, counter tops**

*Bar counters*

*Kitchen counters*

*Bathroom vanity tops*

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### **2214 Racks—garment and other**

<i>Book and magazine racks</i>	<i>Display racks</i>
<i>Clothes-drying racks</i>	<i>Mail-sorting racks</i>
<i>Coat racks</i>	<i>Bread racks</i>
<i>Bike racks</i>	<i>Kitchen racks</i>
<i>Tool racks</i>	<i>Clothing fixtures</i>

### **2215 Lockers**

*Includes:* wall lockers

*Excludes:* refrigerated lockers

### **2216 Partitions**

<i>Office partitions</i>	<i>Room partitions</i>
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### **2217 Shelves, shelving**

This code should be used as secondary source when the primary source of the injury is an object that fell from a shelf.

<i>Display shelving</i>	<i>Office and store shelving</i>
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### **2218 Cages, cage racks**

### **2219 Cases, cabinets, racks, shelves, n.e.c.**

### **222\* Floor, wall, and window coverings**

This group classifies floor, wall, and window coverings such as carpets, wallpaper, and curtains.

*Includes:* floor coverings; wall coverings; window coverings, blinds, shades, or draperies

*Excludes:* floor surfaces (662\*); sidewalks (664\*); rolls of carpet or linoleum (2133); ceiling tiles (4141); vinyl floor tiles (4144); wood paneling (4152); sheet flooring (4195); siding (4196); wallboard (4198)

### **2220 Floor, wall, and window coverings, unspecified**

### **2221 Floor coverings—nonstructural**

<i>Carpet (except rolls)</i>	<i>Linoleum (except rolls)</i>
<i>Floor mats</i>	<i>Area rugs (except rolls)</i>
<i>Throw rugs (except rolls)</i>	<i>Door mats</i>

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\*-Asterisks denote a summary level code not assigned to individual cases.

**2222 Wall coverings**  
*Wall panels—acoustic* *Wallpaper (except rolls)*

**2223 Window coverings, blinds, shades, draperies**  
*Blinds* *Venetian blinds*  
*Curtains* *Window shades*  
*Drapes*

**2229 Floor, wall, and window coverings, n.e.c.**

**223\* Furniture**

This group classifies different types of home, office, and workshop furniture as well as that located in public buildings.

*Includes:* beds, mattresses; benches, workbenches, saw horses; chairs; desks; sofas; tables, worktables

*Excludes:* cases, cabinets, racks, shelves (221\*); lamps (2241); air mattresses (7634); sleeping bags (7634); billiard and ping pong tables (7639); pianos (7931); sheets, towels, linens, bedding (915); step stools (7422); clocks (791)

**2230 Furniture, unspecified**

**2231 Beds, mattresses**  
*Bed frames* *Folding beds*  
*Bunk beds* *Futons*  
*Cots* *Hammocks*  
*Cradles* *Headboards*  
*Cribs* *Water beds*  
*Bed rails* *Hospital beds*  
*Box springs*

*Excludes:* sofa beds (2235)

**2232 Benches, workbenches, saw horses**  
*Park benches* *Shop benches*  
*Pews* *Utility benches*  
*Piano benches* *Workbenches*  
*Saw horses*

**2233 Chairs**  
*Arm chairs* *High chairs*  
*Bar stools* *Recliners*  
*Easy chairs* *Rocking chairs*

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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	<i>Folding chairs</i>	<i>Bath chairs</i>
	<i>Office chairs</i>	
<b>2234</b>	<b>Desks</b>	
	<i>Computer desks</i>	<i>School desks</i>
	<i>Office desks</i>	<i>Work stations</i>
	<i>Roll-top desks</i>	
<b>2235</b>	<b>Sofas</b>	
	<i>Couches</i>	<i>Love seats</i>
	<i>Divans</i>	<i>Ottomans</i>
	<i>Loungers</i>	<i>Sofa beds</i>
<b>2236</b>	<b>Tables, worktables</b>	
	<i>Card tables</i>	<i>End tables</i>
	<i>Cocktail tables</i>	<i>Folding tables</i>
	<i>Coffee tables</i>	<i>Kitchen tables</i>
	<i>Conference tables</i>	<i>Lamp stands</i>
	<i>Dining tables</i>	<i>Operating tables</i>
	<i>Vanities (bedroom)</i>	
<b>2237</b>	<b>Dressers, armoires</b>	
	<i>Chest of drawers</i>	<i>Dresser drawers</i>
	<i>Bureau</i>	
<b>2238</b>	<b>Multiple types of furniture</b>	
	<i>Tables and chairs</i>	<i>Patio furniture</i>
<b>2239</b>	<b>Furniture, n.e.c.</b>	
	<i>Entertainment centers</i>	
	<i>Foot rests</i>	
<b>224*</b>	<b>Lighting fixtures and equipment</b>	
	This source group classifies home, office, and industrial lighting equipment.	
	<i>Includes:</i>	lamps, light bulbs (incandescent or fluorescent), neon lights, traffic lights, chandeliers, lanterns, spot lights, UV lights, street lights and tower lights (unless injury results from fall from or contact with the pole), halogen lamps
	<i>Excludes:</i>	electric parts (441 *); flashlights (7299); flash bulbs (7619); headlights and other vehicle lights (489)
<b>2240</b>	<b>Lighting equipment, unspecified</b>	

\*-Asterisks denote a summary level code not assigned to individual cases.



## SOURCE

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- 2241 Lamps, light fixtures**
- 2242 Light bulbs**
- 2249 Lighting equipment, n.e.c.**

### **225\* Plumbing fixtures**

This source group classifies home, office, and industrial plumbing fixtures.

*Includes:* bathtubs; sinks; toilets; showers; faucets

*Excludes:* pipes (412\*); valves (423), augers, plumber's snakes (7111, 7211, 7311)

### **2250 Plumbing fixtures, unspecified**

#### **2251 Bathtubs, hot tubs, showers**

#### **2252 Sinks**

*Bathroom sinks*

*Kitchen sinks*

#### **2253 Toilets, urinals**

#### **2259 Plumbing fixtures, n.e.c.**

*Drinking fountains*

*Faucets*

### **226\* Blackboards, bulletin boards, mirrors**

*Includes:* mirrors, bulletin boards, blackboards, white boards, smart boards

*Excludes:* wallboard (4198), drywall (4198), movie screens (7614)

#### **2260 Blackboards, bulletin boards, mirrors, unspecified**

#### **2261 Blackboards, bulletin boards, mirrors—wall-mounted**

#### **2262 Blackboards, bulletin boards, mirrors—stand-alone**

### **229 Furniture and fixtures, n.e.c.**

*Podiums*

*Water coolers*

## **29 Containers, furniture, and fixtures, n.e.c.**

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### 3\* MACHINERY

This division classifies light and heavy machinery which perform specific functions or processes under power. Machinery is defined as a combination of smaller machines (elements or parts) which are capable of motion and are contained in a stationary frame. Computer, audio, and video products, as well as heating, cooling and cleaning machinery and appliance are also included in this definition. Machines that are primarily used for transporting people or materials are classified in division 8 (Vehicles). Handheld power tools are classified in major group 72 (Handtools—powered). If a part is **known or assumed to be attached** to a machine when an injury occurs, then the entire machine should be listed as the source in this division unless the event is overexertion or the injury was inflicted by an electrical cord, overhead powerline, or floor of a vehicle in a non-transportation incident. If a part is **known to be unattached and independent** of a machine, or if it is probable that a **machine is not involved**, then that specific part should be selected as the source. The smaller parts which are used in machinery are classified in major group 44 (Machine, tool, and electric parts).

*Includes:* agricultural and garden machinery; construction, logging, and mining machinery; heating, cooling, and cleaning machinery and appliances; material and personnel handling machinery (e.g., conveyors, cranes, hoists, elevators, etc.); metal, woodworking, and special material machinery; office and business machinery; special process machinery; miscellaneous machinery

*Excludes:* hoisting accessories (43\*); machinery parts (44\*); motors (4414); engines (4424); nonpowered handtools (71\*); powered handtools (72\*); vehicles (8\*); powered industrial vehicles—material hauling and transport (862\*); tractors, PTOs (863\*); forklifts (8621)

### 30 Machinery, unspecified

### 31\* Agricultural and garden machinery

This major group classifies machinery used to perform specific agricultural and garden functions or processes.

*Includes:* harvesting and threshing machinery; mowing machinery; plowing, planting, and fertilizing machinery; other agricultural and garden machinery

*Excludes:* construction, logging, and mining machinery (32\*); gravity conveyors (341\*); powered conveyors (342\*); elevators (346\*); parts and materials (4\*); feed wagons (483); vehicles (8\*); tractors, PTOs (863\*)

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### **310 Agricultural and garden machinery, unspecified**

#### **311\* Harvesting and threshing machinery**

This source group classifies agricultural and garden machinery which primarily perform harvesting or threshing functions.

*Includes:* balers; combines; agricultural harvesters and reapers; threshers

*Excludes:* mowing machinery (312\*); logging harvesters (3231); tractors and PTOs (863\*)

#### **3110 Harvesting and threshing machinery, unspecified**

#### **3111 Balers—agricultural**

#### **3112 Combines**

#### **3113 Harvesters, reapers**

*Includes:* agricultural harvesters

*Excludes:* logging harvesters (3231)

#### **3114 Threshers**

#### **3119 Harvesting and threshing machinery, n.e.c.**

*Forage choppers*

*Tree shakers*

#### **312\* Mowing machinery**

This source group classifies agricultural and garden machinery which primarily perform mowing functions.

*Includes:* nonriding and riding lawn mowers; tractor mowers; brush hogs

*Excludes:* harvesting and threshing machinery (311); lawn edgers, clippers, trimmers—powered (7225); tractors (863\*)

#### **3120 Mowing machinery, unspecified**

#### **3121 Lawn mowers—nonriding, powered**

#### **3122 Lawn mowers—riding**

#### **3123 Brush hogs—tractor**

*Brush hogs*

*Hay mowers*

*Haying machines*

\*-Asterisks denote a summary level code not assigned to individual cases.

**3124 Sickle bars—tractor**

**3125 Mower—tractor, n.e.c.**

**3129 Mowing machinery, n.e.c.**  
*Push mowers—nonpowered*

**313\* Plowing, planting, and fertilizing machinery**

This source group classifies agricultural and garden machinery which primarily perform plowing, planting, or fertilizing functions. Also included here are plows, discs, cultivators, and spreaders that are attached to tractors.

*Includes:* plowing and cultivating machinery; seed planting machinery; agricultural spreading machinery

*Excludes:* snow plows (8429); vehicles (8\*); tractors (863\*)

**3130 Plowing, planting, and fertilizing machinery, unspecified**

**3131 Plowing and cultivating machinery**

<i>Cultivators</i>	<i>Harrows</i>
<i>Discs</i>	<i>Plows</i>
<i>Roto tillers</i>	

**3132 Seed planting machinery**

**3133 Spreading machinery—agricultural**

*Includes:* fertilizer spreaders, manure spreaders

*Excludes:* hand-held and push fertilizer spreaders (7199); spraying and dusting machinery (3192)

**3139 Plowing, planting, and fertilizing machinery, n.e.c.**

**319\* Other agricultural and garden machinery**

This source group classifies agricultural and garden machinery which perform specific functions or processes other than those previously classified.

*Includes:* agricultural feed grinders, feed crushers, and feed mixers; agricultural spraying and dusting machinery (except aircraft); irrigation machinery

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\*-Asterisks denote a summary level code not assigned to individual cases.

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*Excludes:* construction, logging, and mining machinery (32\*); gravity conveyors (341\*); powered conveyors (342\*); elevators (346\*); parts and materials (4\*); feed wagons (483); vehicles (8\*); crop-dusting aircraft (8112); tractors (863\*); dairy and milk processing machinery (3716); forklifts, order pickers, and other powered industrial carriers (862\*)

**3190 Other agricultural and garden machinery, unspecified**

**3191 Feed grinders, crushers, mixers—agricultural**

**3192 Spraying and dusting machinery—agricultural**

*Excludes:* crop dusting aircraft (8112)

**3193 Irrigation machinery**

*Excludes:* garden, lawn sprinklers (3199)

**3199 Agricultural and garden machinery, n.e.c.**

*Includes:* sprinklers

*Excludes:* crop irrigation machinery (3193)

**32\* Construction, logging, and mining machinery**

This major group classifies machinery which perform specific construction (or demolition), logging, and mining functions or processes. Skid steers are classified according to the type of attachment. If the type of attachment is unknown, use code 320.

*Includes:* excavating machinery; loaders; logging and wood processing machinery; mining and drilling machinery; road grading and surfacing machinery

*Excludes:* agricultural and garden machinery (31); material and personnel handling machinery (34\*); metal, woodworking, and special material machinery (35\*); vehicles (8\*); tractors (863\*); forklifts, order pickers, and other powered industrial carriers (862\*)

**320 Construction, logging, and mining machinery, unspecified**

**321\* Excavating machinery**

This source group classifies machinery which primarily perform excavating functions. Excavating machines include those that dig earth and rock (power shovels, backhoes, trenchers) and place it in separate

\*-Asterisks denote a summary level code not assigned to individual cases.

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hauling units, those that pick up and transport material (bulldozers), as well as those that cast and drag a scoop through water to excavate the bottom soil (draglines).

*Includes:* backhoes, backhoe loaders, trackhoes, trackhoe loaders; bulldozers; front and power shovels; mini excavators; trenchers; draglines, dredges

*Excludes:* loaders—except backhoe and trackhoe (322\*); drilling machinery (324\*); tunneling machines (3243); hooks, shackles, magnets, clamshells, grapples (432); vehicles (8\*)

### **3210 Excavating machinery, unspecified**

#### **3211 Backhoes, trackhoes**

*Includes:* excavators, except mini; pipelayers; backhoe loaders; trackhoe loaders

*Excludes:* mini excavators (3214)

#### **3212 Bulldozers**

*Crawler dozers*

*Wheeled dozers*

#### **3213 Front and power shovels**

#### **3214 Mini excavators**

#### **3215 Trenchers**

*Trenching machines*

*Continuous bucket excavators*

#### **3219 Excavating machinery, n.e.c.**

*Draglines*

*Marine dredges*

*Marine excavators*

*Suction dredges*

### **322\* Loaders**

This source group classifies machinery which primarily performs loading operations. Loaders basically consist of a movable bucket, either smooth mouthed or toothed, mounted on a series of movable arms at the front of a crawler or rubber-tired tractor. Skid steers with a loading attachment and mini loaders are included here. Skid steers with other types of attachments, such as forklifts, are coded into the appropriate category according to the type of attachment.

*Includes:* bucket loaders; end loaders; front-end loaders; skid steer loaders; mini loaders

\*-Asterisks denote a summary level code not assigned to individual cases.

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*Excludes:* excavating machinery (321\*); log loaders (3237); backhoe and trackhoe loaders (3211)

**3220 Loaders, unspecified**

**3221 Bucket, front-end, end, and pay loaders**

**3222 Skid steer loaders, mini loaders**

**3229 Loaders, n.e.c.**

**323\* Logging and wood processing machinery—specialized**

This source group classifies machinery which primarily perform specialized logging and wood processing operations.

*Includes:* chippers; logging skidders; debarkers; harvesters (logging); log loaders

*Excludes:* agricultural harvesters (3113); other loaders (322\*); material and personnel handling machinery (34\*); metal, woodworking, and special material machinery (35\*); paper production machinery (374\*); other grapples (432)

**3230 Logging and wood processing machinery—specialized, unspecified**

**3231 Mechanical harvesters—logging**

*Includes:* fellers, feller-bunchers, feller-forwarders, log forwarders, log harvesters

*Excludes:* agricultural harvesting machinery (3113)

**3232 Forwarding and yarding machinery, except feller-forwarders**

**3233 Skidders—cable and grapple**

*Logging skidders*

**3234 Chippers**

**3235 Log processing machinery**

*Includes:* delimiters, debarkers, slashers

**3236 Combination log processing machinery**

**3237 Log loaders**

*Includes:* heel boom and wheeled log loaders

\*-Asterisks denote a summary level code not assigned to individual cases.

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*Excludes:* truck-mounted boom loaders (8422)

### **3239 Logging and wood processing machinery—specialized, n.e.c.**

### **324\* Mining and drilling machinery**

This source group classifies machinery which primarily perform mining and drilling operations including oil and gas extraction. Mining machinery is used in removing and transporting valuable solid minerals from their place of natural origin to a more accessible location for further processing or transportation. Many mining-type machines are used for excavating in the construction industry and should be classified accordingly. Drilling machinery is generally used to bore vertical holes while tunneling machinery is generally used to bore horizontal holes. Code 3244 includes machinery involved in oil and gas extraction, such as oil drilling rigs and derricks, powered tongs, drawworks, and crown and block.

*Includes:* drilling machines, drilling augers; mineral sorters, separators, concentrators; tunneling machines; oil drilling rigs and machinery

*Excludes:* coal breakers and crushers (3292); grain augers (3427); augers used as conveyors (3427); nonpowered portable handheld augers (7111); nonpowered portable handheld drills (7113); powered portable handheld augers (7211); powered portable handheld drills (7213); offshore oil platforms (6213); pump jacks (3797)

### **3240 Mining and drilling machinery, unspecified**

### **3241 Drilling machines, drilling augers**

*Includes:* continuous miners, mechanical miners, diamond drills, rock drills, jet flame drills, water-jet drills

*Excludes:* oil drilling rigs and machinery (3244)

### **3242 Mineral sorters, separators, concentrators**

### **3243 Tunneling machines**

*Includes:* bore tunneling machines, horizontal boring machines, directional drilling machines, micro-tunneling machines

### **3244 Oil drilling rigs and machinery**

\*-Asterisks denote a summary level code not assigned to individual cases.



## SOURCE

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*Includes:* oil drilling derricks, oil derricks, drawworks, tongs

*Excludes:* offshore oil platforms (6213), pump jacks (3797)

### **3249 Mining and drilling machinery, n.e.c.**

*Includes:* mineral property analyzers

### **325\* Road grading and surfacing machinery**

This source group classifies machinery which primarily perform road grading and surfacing operations.

*Includes:* asphalt and concrete spreaders; asphalt and concrete paving machines, pavers; rollers compactors—construction; graders, scrapers—construction; milling machines, cold planers, and road profilers; road recyclers, road reclaimers; material transfer machines; linemarking and striping machinery

*Excludes:* construction, logging, and mining machinery (32\*); street sweeping and cleaning machinery (894); vehicles (8\*)

### **3250 Road grading and surfacing machinery, unspecified**

#### **3251 Asphalt and concrete spreaders**

#### **3252 Asphalt and concrete paving machines, pavers**

#### **3253 Rollers, compactors—construction**

*Includes:* oil compactors; asphalt rollers and compactors; landfill compactors; vibratory rollers and compactors; pneumatic rollers and compactors; steam rollers

#### **3254 Graders, scrapers—construction**

*Includes:* elevating scrapers, coal bowl scrapers, open bowl scrapers, push-pull scrapers

#### **3255 Milling machines, cold planers, and road profilers**

#### **3256 Road recyclers, road reclaimers**

#### **3257 Material transfer machines**

*Includes:* transfer machines, shuttle buggies, windrow machines

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### **3258 Road linemarking and striping machinery**

### **3259 Road grading and surfacing machinery, n.e.c.**

### **329\* Other construction, logging, and mining machinery**

This source group classifies construction, logging, and mining machinery which perform specific functions or processes other than those previously classified.

*Includes:* mineral agitators, mixers; compactors, crushers, pulverizers; pile drivers, tamping machinery; pile extractors

*Excludes:* agricultural and garden machinery (31\*); asphalt rollers and compactors (3253); material and personnel handling machinery (34\*); metal, woodworking, and special material machinery (35\*); vehicles (8\*); tractors (863\*)

### **3290 Other construction, logging, and mining machinery, unspecified**

### **3291 Agitators, mixers—earth, mineral** *Cement mixers (except trucks)*

### **3292 Compactors, crushers, pulverizers—earth, mineral** *Coal breakers* *Coal crushers*

### **3293 Pile drivers, tamping machinery**

*Includes:* drop hammers; pile hammers; air, diesel, and vibratory hammers; combination pile driving and extracting units; pile hammer machinery

*Excludes:* handheld pile drivers and tampers (72\*)

### **3299 Construction, logging, and mining machinery, n.e.c.** *Pile extractors*

### **33\* Heating, cooling, and cleaning machinery and appliances**

This major group classifies machinery which perform specific heating, cooling, and cleaning functions or processes.

*Includes:* cooling and humidifying machinery and appliances; heating and cooking machinery and appliances; washers, dryers, and cleaning machinery and appliances

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Excludes:* boilers (2121); dairy and milk processing machinery (3716); industrial furnaces and forging machinery (3533); distilling and rectifying machinery (3792); incinerators (3993); vending machines (3996); vehicle fans (4824); welding & cutting machinery (359\*); powered welding and heating handtools (726\*)

### **330 Heating, cooling, and cleaning machinery and appliances, unspecified**

### **331\* Cooling and humidifying machinery and appliances**

This source group classifies machinery which primarily performs cooling and humidifying functions.

*Includes:* air conditioners; fans, blowers; humidifiers, dehumidifiers, vaporizers; refrigerators, freezers, ice makers

*Excludes:* dairy and milk processing machinery (3716); vehicle fans (4824)

#### **3310 Cooling and humidifying machinery and appliances, unspecified**

#### **3311 Air conditioning units**

#### **3312 Fans, blowers—wall, floor, ceiling, ventilation**

*House fans*

*Industrial fans*

#### **3313 Humidifiers, dehumidifiers, vaporizers**

#### **3314 Refrigerators, freezers, ice makers**

#### **3319 Cooling and humidifying machinery and appliances, n.e.c.**

### **332\* Heating and cooking machinery and appliances**

This source group classifies machinery which primarily performs general heating and cooking functions, as well as fabric pressing and steaming functions. Pressure cookers are included in this category.

*Includes:* beverage heating and percolating equipment and appliances; broiling and frying equipment and appliances; fabric pressers and ironing appliances; furnaces, heaters; kilns; ranges, cooking ovens, grills, toasters, food warmers; steaming equipment and appliances

*Excludes:* boilers (2121); dairy and milk processing machinery (3716); industrial furnaces and forging machinery (3533); distilling and rectifying machinery (3792); incinerators

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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(3993); vending machines (3996); powered welding and heating handtools (726)

**3320 Heating and cooking machinery and appliances, unspecified**

**3321 Beverage heating and percolating equipment and appliances**

*Coffee makers*

**3322 Broiling and frying equipment and appliances**

*Pressure fryers*

**3323 Fabric pressers and ironing appliances**

*Excludes:* steaming equipment (3327)

**3324 Furnaces, heaters**

*Domestic furnaces*

*Franklin stoves*

*Gas and oil furnaces*

*Heating units*

*Hot-water heaters*

*Registers, furnace*

*Potbellied stoves*

*Registers*

*Solar heaters*

*Space heaters*

*Radiators*

*Pressure-cooking equipment*

**3325 Kilns**

**3326 Ranges, cooking ovens, grills, toasters, food warmers**

*Camping stoves—portable*

*Grills—outdoor, indoor*

*Hibachis*

*Microwave ovens*

*Ovens—kitchen, cooking*

*Ranges—kitchen, cooking*

*Roasters*

*Stoves—kitchen, cooking*

*Toasters*

*Waffle irons*

**3327 Steaming equipment and appliances**

**3329 Heating and cooking machinery and appliances, n.e.c.**

**333\* Washers, dryers, and cleaning machinery and appliances**

This source group classifies machinery which primarily performs washing, drying, and cleaning functions for specific products.

*Includes:* car washing machinery, except for hand-held power washers; clothes dryers; clothes washers; dishwashers; hair and hand dryers; vacuum cleaners; other filtering and purifying machinery

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Excludes:* kilns (3325); paper production dryers (3743); paper production washers, bleachers, refiners (3746); street sweeping and cleaning machinery (894); hand-held power washers, pressure washers (7293)

**3330 Washers, dryers, and cleaning machinery and appliances, unspecified**

**3331 Car or vehicle washing machinery**

**3332 Clothes dryers**

**3333 Clothes washers**

**3334 Dishwashers**

**3335 Hair and hand dryers**

**3336 Vacuum cleaners**

**3339 Washers, dryers, and cleaning machinery and appliances, n.e.c.**

*Other filtering and purifying machinery*

**339 Heating, cooling, and cleaning machinery and appliances, n.e.c.**

This source group classifies heating, cooling, and cleaning machinery and appliances which perform functions other than those previously classified.

### **34\* Material and personnel handling machinery**

This major group classifies machinery which perform specific material handling functions or processes. This category also includes machinery, such as elevators and aerial lifts, used to raise and lift workers to a height needed to perform work tasks.

If a part is **known or assumed to be attached** to a machine when an injury occurs, then the entire machine should be listed as the source in this division unless the event is overexertion or the injury was inflicted by an electrical cord, overhead powerline, or floor of a vehicle in a nontransportation incident.

If a part is **known to be unattached and independent** of a machine, or if it is probable that a **machine is not involved**, then that specific part should be selected as the source.

Material handling machinery are usually composed of many smaller parts and elements. For example, hoisting machines, cranes, derricks, and elevators employ sheaves and pulleys (called blocks) to perform their operations. The majority of these smaller material handling machinery components are classified in major group 43 (Hoisting accessories), and major group 44 (Machine, tool, and electric parts). If power is unknown, such as whether a conveyor is gravity or powered, choose the first one in the coding structure.

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Includes:* gravity conveyors; powered conveyors; cranes; overhead hoists; derricks; elevators; jacks; winders, unwinders

*Excludes:* agricultural and garden machinery (31\*); construction, logging, and mining machinery (32\*); logging and wood processing machinery (323\*); hoisting accessories (43\*); machine, tool, and electric parts (44\*); scaffolds, staging (634\*); vehicles (8\*); forklifts (8621)

### **340 Material and personnel handling machinery, unspecified** *Package conveyor*

#### **341\* Conveyors—gravity and nonpowered**

This source group classifies conveyors which primarily perform conveying functions through the use of gravity. Gravity conveyors are limited to use in instances where the material being conveyed is to be lowered in elevation or rolled along a level path.

*Includes:* chutes; roller conveyors; wheel conveyors, including skate wheel conveyors

*Excludes:* powered conveyors (342\*); unattached rollers (4427)

#### **3410 Conveyors—gravity and nonpowered, unspecified**

#### **3411 Chutes**

#### **3412 Conveyors—roller**

#### **3413 Conveyors—wheel**

#### **3419 Conveyors—gravity and nonpowered, n.e.c.**

#### **342\* Conveyors—powered**

This source group classifies conveyors which primarily perform conveying functions through the use of an electrical or other power source. Powered conveyors are used in instances where the material being conveyed is to be raised, lowered, or moved along a level path. Live roller conveyors are classified in 3424, regardless of whether they are belt or chain driven. Drycleaning and garment conveyors are coded in 3429.

*Includes:* belt conveyors; belt loaders; bucket, cup conveyors; chain conveyors; live roller conveyors; pan conveyors; pneumatic conveyors; screw and auger conveyors, such as grain augers; slot conveyors

*Excludes:* gravity conveyors (341\*); chain and belt drives (4422)

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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- 3420 Conveyors—powered, unspecified**
- 3421 Conveyors—belt**
- 3422 Conveyors—bucket, cup**
- 3423 Conveyors—chain**
- 3424 Conveyors—live roller**
- 3425 Conveyors—pan**
- 3426 Conveyors—pneumatic**
- 3427 Conveyors—screw, auger**
- 3428 Conveyors—slot**
- 3429 Conveyors—powered, n.e.c.**

### **343\* Cranes**

This source group classifies cranes which primarily are used for lifting heavy weights by means of a movable projecting arm or a horizontal beam traveling on an overhead support.

*Includes:* floating cranes; gantry cranes; hammerhead cranes; mobile, truck, or rail-mounted cranes; monorail and underhung cranes; overhead cranes; portal, tower, and pillar cranes

*Excludes:* overhead hoists (344\*); derricks (345); elevators (346)

- 3430 Cranes, unspecified**
- 3431 Cranes—truck-mounted**
- 3432 Cranes—rail-mounted**

*Includes:* railroad cranes

*Excludes:* monorail cranes, gantry cranes (3436)

### **3433 Cranes—floating, barge mounted**

### **3434 Cranes—other mobile cranes**

*Includes:* crawler cranes, all-terrain cranes, rough-terrain cranes

- 3435 Cranes—tower, self-erecting, portal, pillar, hammerhead**
- 3436 Cranes—gantry, overhead, monorail, container**

### **3437 Cranes—other fixed or stationary cranes**

*Includes:* dock cranes, jib cranes, bulk loading cranes

### **3439 Cranes, n.e.c.**

\*-Asterisks denote a summary level code not assigned to individual cases.

**344\* Overhead hoists**

This source group classifies electric, manual, and pneumatic hoists for raising and lowering material with intermittent motion while holding the material freely suspended. This source group also includes aircraft loading hoists.

*Includes:* powered and manual overhead hoists

*Excludes:* elevators (346\*); hoisting accessories such as fixtures, hooks, or slings (43\*); patient hoist (757); automotive lifts (3464)

**3440 Overhead hoists, unspecified**

**3441 Overhead hoists—electric powered**

**3442 Overhead hoists—manual**

**3443 Overhead hoists—pneumatic powered**

**3449 Overhead hoists, n.e.c.**

**345 Derricks and related equipment**

This source group classifies material handling machinery which primarily function as derricks, hoisting mechanisms which use ropes or cables running on pulleys.

*Includes:* a-frame derricks; basket derricks; breast derricks; gin pole derricks; guy derricks

*Excludes:* oil drilling rigs and derricks (3244); offshore oil platforms (6213)

**346\* Elevators, hoists, aerial lifts, personnel platforms—except truck-mounted**

This source group classifies material handling machinery which is primarily used to lift and lower a load along a fixed vertical path of travel with intermittent motion. This source group also includes farm and grain elevators, building elevators, aerial lifts, and scissor lifts.

The most common elevators use electric motors, cables, pulleys, and counterweights. If any of these specific parts are listed as the source—and they are known to be unattached and independent of an elevator—they are classified in division 4 (Parts and Materials). The source for falls down elevator shafts should be elevator shaft (658).

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\*-Asterisks denote a summary level code not assigned to individual cases.



## SOURCE

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*Includes:* dumbwaiters (3461); electric elevators (3462); hydraulic elevators (3462); hand-operated elevators (3462); manlifts (3463); aerial lifts (3467) non-truck-mounted cherry pickers (3469); personnel hoists (3465); scissor lifts (3467)

*Excludes:* powered conveyors (342\*); overhead hoists (344\*); scaffolds, staging (634\*); forklifts (8621); portable car jacks (347); elevator shafts (658); boom trucks (8422); truck-mounted bucket or basket hoists (8422); truck-mounted aerial lifts (8422); truck-mounted cherry pickers (8422); scissor jacks (347)

**3460 Elevators, hoists, aerial lifts, personnel platforms—except truck-mounted, unspecified**

**3461 Dumbwaiters**

**3462 Elevators**

**3463 Manlifts**

**3464 Automobile lifts and hoists**

**3465 Material and personnel hoists**

**3466 Boat lifts**

**3467 Aerial lifts, scissor lifts—except truck-mounted**

**3469 Elevators, hoists, aerial lifts, personnel platforms—except truck-mounted, n.e.c.**

### **347 Jacks**

This code classifies jacks which are primarily used to lift, bolster, hoist, or move something heavy a short distance.

*Includes:* hydraulic, mechanical, or pneumatic jacks; bottle jacks; scissor jacks; car jacks

*Excludes:* elevators (3462); oil well pump jacks (3797); pallet jacks, motorized (8623); pallet jacks, non-motorized (872); automobile hoists, lifts (3464); scissor lifts, except truck-mounted (3467)

### **348\* Ski lifts, nonrail amusement rides**

This source group includes ski lifts and non-rail amusement rides. If the type of amusement ride is unspecified, code 3482.

**3480 Ski lifts, nonrail amusement rides, unspecified**

**3481 Ski lifts, gondola rides**

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Includes:* chair lift, J-bar lift, T-bar lift, ski tow, aerial gondola rides (regardless of venue), zip lines

### **3482 Nonrail amusement rides**

*Includes:* spinning amusement rides, ferris wheels

*Excludes:* roller coaster (821), aerial gondola rides (3481)

### **3489 Ski lifts, nonrail amusement rides, n.e.c.**

### **349\* Other material and personnel handling machinery**

This source group classifies material handling machinery that has not been previously classified.

*Includes:* winders, unwinders; baling and strapping machinery; stacking machinery

*Excludes:* agricultural and garden machinery (31\*); construction, logging, and mining machinery (32\*); logging and wood processing machinery (323\*); hoisting accessories (43\*); machine, tool, and electric parts (44\*); vehicles (8\*); forklifts (8621); packaging, bottling, wrapping, and bundling machinery (373\*); agricultural balers (3111)

### **3490 Other material and personnel handling machinery, unspecified**

#### **3491 Winders, unwinders**

#### **3492 Banding, baling, strapping machinery**

#### **3493 Stacking machinery**

#### **3499 Material and personnel handling machinery, n.e.c.**

### **35\* Metal, woodworking, and special material machinery**

This major group classifies machinery which primarily perform specific material cutting, shaping, or forming functions or processes. Special material machinery includes those that process plastic, rubber, concrete and other special materials. Many machines classified here are referred to as "Machine Tools"—machines that make the parts for other machines. These machines are commonly used in the manufacturing industries, but may be utilized in other industries as well.

*Includes:* bending, rolling, shaping machinery; boring, drilling, planing, milling machinery; extruding, injecting, forming, molding machinery; grinding, polishing machinery; lathes; presses (except printing); sawing machinery; threading and tapping machines; electrochemical and discharge machinery (EDM); laser cutting,

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\*-Asterisks denote a summary level code not assigned to individual cases.

pressure fluid cutting; welding machinery

*Excludes:* agricultural and garden machinery (31\*); construction, logging, and mining machinery (32\*); mining and drilling machinery (324\*); material and personnel handling machinery (34\*); food slicers (3711); meat grinders (3713); paper production machinery (374\*); textile, apparel, leather production machinery (376\*); painting, priming, metal coating machinery (3796); nonpowered handtools (71\*); powered handtools (72\*); handheld power saws (7224); powered surfacing handtools (724\*)

**350 Metal, woodworking, and special material machinery, unspecified**

**351\* Bending, rolling, shaping machinery**

This source group classifies machinery which primarily perform metal bending, rolling, or shaping functions to produce workpieces without cutting or removing material. These machines may be used to bend, roll, or shape other materials (e.g., wire, plastics) as well. A calender is a form of press which uses rollers or plates to smooth and glaze cloth, rubber, or paper, or to form these materials into thin sheets. Paper production calenders are classified in 3741 (Calenders/supercalenders—paper production). All other calenders are classified here.

*Includes:* bending, crimping machines; shearing machines; rolling mills, rolling, calendering machinery

*Excludes:* calenders used in the paper production industry (3741)

**3510 Bending, rolling, shaping machinery, unspecified**

**3511 Bending, crimping machines**

**3512 Shearing machines**

**3513 Rolling mills, rolling, calendering machinery**

**3519 Bending, rolling, shaping machinery, n.e.c.**

**352\* Boring, drilling, planing, milling machinery**

This source group classifies machinery which primarily perform material cutting functions (boring, drilling, planing, and milling). The drilling process creates a hole while the boring process enlarges and trues existing holes. Reamers are used to produce precise hole sizes with a smooth finish. Planers cut large, flat surfaces on a workpiece, or cut many small parts simultaneously. Many milling machines are being replaced by machining centers (3523) which do a number of different operations—milling, drilling, boring, facing, spotting, counterboring, threading, and tapping—in a single setup.

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Includes:* stationary drills; planing machines; milling machines; reaming machines

*Excludes:* construction, logging, and mining machinery (32\*); mining and drilling machinery (324\*); paper production machinery (374\*); nonpowered handtools (71\*); nonpowered boring and drilling handtools (711\*); powered handtools (72\*); powered boring and drilling handtools (721\*)

### **3520 Boring, drilling, planing, milling machinery, unspecified**

#### **3521 Drills—stationary**

*Drill presses*

*Drilling machines*

*Gang drills*

*Jig boring machines*

*Radial drills*

#### **3522 Planing mills**

#### **3523 Milling machines**

*Broaching machines*

*Machining centers*

#### **3524 Reaming machines**

#### **3525 Boring, routing, notching machines**

#### **3529 Boring, drilling, planing, milling machinery, n.e.c.**

*Gear-cutting machinery*

*Nibbling machines*

### **353\* Extruding, injecting, forming, molding machinery**

This source group classifies machinery which primarily casts, extrudes, forges, or injects molten metal, plastics, rubber, or other special materials to produce work pieces.

*Includes:* casting machinery; extruding machinery; forging machinery; plastic injection molding machinery

*Excludes:* heaters, home furnaces (3324); cooking ovens (3326); industrial ovens used for drying agricultural products, kilns (3325); dies, molds, patterns (4421)

### **3530 Extruding, injecting, forming, molding machinery, unspecified**

#### **3531 Casting machinery**

*Ingot molding machinery*

*Molding machinery (except plastic)*

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### **3532 Extruding machinery**

*Plastic extruders*

*Wire extruders*

*Rubber extruders*

### **3533 Forging machinery**

*Blast furnaces*

*Cold forging machinery*

*Forges*

*Hot forging machinery*

*Industrial furnaces*

*Industrial forging ovens*

*Smelters*

### **3534 Plastic injection molding machinery**

### **3539 Extruding, injecting, forming, molding machinery, n.e.c.**

### **354\* Grinding, polishing machinery**

This source group classifies machinery which primarily perform material surfacing and finishing operations (by grinding or polishing). Grinding machines usually employ a coarse, abrasive wheel. Honing and lapping machines use abrasive sticks, plates, or rolls for precise metal-finishing operations.

*Includes:* grinders, abraders; honing, polishing, lapping machinery

*Excludes:* meat grinders (3713); powered surfacing handtools (724); buffers, polishers, waxers—powered (7241); powered hand grinders (7242)

### **3540 Grinding, polishing machinery, unspecified**

### **3541 Grinders, abraders**

*Centerless grinders*

*Cylindrical grinders*

*Internal grinders*

*Surface grinders*

### **3542 Honing, polishing, lapping machinery**

### **3549 Grinding, polishing machinery, n.e.c.**

### **355\* Lathes**

This source group classifies lathes which are used to turn and work materials of any composition. Lathes are most commonly used for machining materials to various diameters but may also be used for drilling, boring, threading, knurling, and tapering.

*Includes:* metalworking lathes; woodworking lathes

*Excludes:* threading and tapping machines (358); powered turning handtools (725)

\*-Asterisks denote a summary level code not assigned to individual cases.

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- 3550 Lathes, unspecified**
- 3551 Metalworking lathes**
- 3552 Woodworking lathes**
- 3559 Lathes, n.e.c.**

### **356\* Presses, except printing**

This source group classifies machinery which primarily function as presses, except printing presses.

*Includes:* assembly presses; brake presses; punch presses

*Excludes:* fabric pressers (3323); printing presses (3753)

- 3560 Presses, except printing, unspecified**
- 3561 Assembly presses**
- 3562 Brake presses**
- 3563 Punch presses**
- 3569 Presses, except printing, n.e.c.**

### **357\* Sawing machinery—stationary**

This source group classifies machinery which primarily perform material sawing operations.

*Includes:* arm saws, radial saws; band saws; table saws

*Excludes:* construction, logging, and mining machinery (32\*); food slicers (3711); meat grinders (3713); paper production machinery (374\*); textile, apparel, leather production machinery (376\*); nonpowered handtools (71\*); nonpowered saws (7126); powered handtools (72\*); handheld power saws (7224)

#### **3570 Sawing machinery—stationary, unspecified** *Cutoff saws*

- 3571 Arm saws, radial arm saws**
- 3572 Band saws**
- 3573 Table saws**

#### **3579 Sawing machinery—stationary, n.e.c.** *Abrasive saws* *Diamond saws*

### **358 Threading and tapping machines**

This code classifies machinery which primarily perform material threading

\*-Asterisks denote a summary level code not assigned to individual cases.

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and tapping operations. Machines that make screws, bolts, and nuts are classified here.

*Includes:* threading and tapping machines

*Excludes:* lathes (355\*)

### **359\* Other metal, woodworking, and special material machinery**

This source group classifies metal, woodworking, and special material machinery which perform specific functions other than those previously classified.

*Includes:* electrochemical and discharge machinery (EDM's); laser cutting machinery; pressure fluid cutting machinery; spot and other welding machinery

*Excludes:* welding fumes (147); agricultural and garden machinery (31\*); material and personnel handling machinery (34\*); food slicers (3711); meat grinders (3713); paper production machinery (374\*); textile, apparel, leather production machinery (376\*); painting, priming, metal coating machinery (3796); nonpowered handtools (71\*); powered handtools (72\*); handheld power saws (7224); powered surfacing handtools (724\*); welding and heating handtools (726\*)

### **3590 Other metal, woodworking, and special material machinery, unspecified**

### **3591 Electrochemical and discharge machinery (EDM)**

*Electrochemical machinery (ECM)*

### **3592 Laser cutting machinery**

*Carbon-dioxide lasers*

*Gas lasers*

### **3593 Pressure fluid cutting machinery**

### **3594 Welding machinery**

*Includes:* robotic welders

*Excludes:* welding, cutting, and blow torches (7261)

### **3599 Metal, woodworking, and special material machinery, n.e.c.**

*Recycling densifier*

*Ultrasonic machinery (USM)*

\*-Asterisks denote a summary level code not assigned to individual cases.

**36\***    **Office and business machinery**

This major group classifies machinery and equipment which operate primarily in an office, banking, or retail environment.

*Includes:*        computers and peripheral equipment; automated teller machines (ATM's); calculating machines and cash registers; FAX machines; mailing and metering machines; photocopiers; typewriters and word processing equipment; paper shredders

*Excludes:*        furniture and fixtures (2\*); audio and video equipment (391\*); vending machines (3996); nonpowered staplers (7195); powered staplers (7236); telephones (391\*); clocks (791)

**360**    **Office and business machinery, unspecified**

**361\***    **Computers and peripheral equipment**

This source group classifies mainframe, micro, personal, and mini-computers and the peripheral equipment such as printers and terminals used in conjunction with the computer. Computers are coded depending on the type of injury. If a worker is injured from typing on a keyboard, use code 3613. Bar code scanners are included in 3614. If the worker suffers eyestrain, use code 3611. If the worker is injured while lifting a computer or laptop or dropping it on his or her foot, use code 3612. If documents indicate only that a person was injured while performing “data entry” with no indication of the equipment, use code 3618.

*Includes:*        cathode ray tubes (CRT's) and video display terminals (VDT's); computer monitors and screens; electronic computers; computer keyboards; optical scanners; grocery store bar-code scanners; printers and plotters

*Excludes:*        audio and video equipment (391\*); word processors (3626); automated teller machines (3621); robots (392); video games (7639); computer cables (4418); personal digital assistants, cell phones, smartphones (3913)

**3610**    **Computers and peripheral equipment, unspecified**

**3611**    **Computer monitors**

*Includes:*        Video display terminals (VDTs), cathode ray tubes (CRTs), computer screens

**3612**    **Computers—CPUs**

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\*-Asterisks denote a summary level code not assigned to individual cases.



## SOURCE

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*Includes:* personal computers—including laptops, mainframe computers, computer servers, computer processing units (CPUs) and towers

**3613 Keyboards—computer**

**3614 Optical scanners**

*Bar code scanners*

*Grocery store bar code scanners*

**3615 Printers and plotters—computer**

**3616 Computer mice, laptop trackpads**

**3618 Multiple computer and peripheral equipment**

*Keyboards and mice*

**3619 Computers and peripheral equipment, n.e.c.**

**362\* Office, banking, and retail machinery**

This source group classifies other machinery and equipment which primarily function in the office, banking, or retail environment.

*Includes:* automated teller machines (ATM's); calculating machines and cash registers; FAX machines; mailing and metering machines; photocopiers; typewriters and word processing equipment; paper and office shredders

*Excludes:* electronic computers and peripheral equipment (361\*); bar code scanners (3614); optical scanners (3614); audio and video equipment (391\*); vending machines (3996); nonpowered staplers (7195); electric staplers (7236); wood chippers (3234); other special material shredders (35\*)

**3620 Office, banking, and retail machinery, unspecified**

**3621 Automated teller machines**

**3622 Calculating machines and cash registers**

**3623 FAX machines**

**3624 Mailing and metering machines**

**3625 Photocopiers**

**3626 Typewriters and word processing equipment**

**3627 Shredders**

**3629 Office, banking, and retail machinery, n.e.c.**

*Coin-counting machinery*

*Dictating machines*

\*-Asterisks denote a summary level code not assigned to individual cases.

**369 Office and business machinery, n.e.c.**

**37\* Special process machinery**

This major group classifies machinery which perform special processes related to specific industries other than those previously classified.

*Includes:* food and beverage processing machinery; medical, surgical, and x-ray machinery and equipment; packaging, bottling, wrapping machinery; paper production machinery; printing machinery and equipment; textile, apparel, leather production machinery; other special process machinery

**370 Special process machinery, unspecified**

**371\* Food and beverage processing machinery—specialized**

This source group classifies special process machinery which are primarily used in the food and beverage industries.

*Includes:* food slicers; juice, oil, fat extractors; meat grinders; food and beverage mixers, blenders, whippers; butchering machinery; dairy and milk processing machinery

*Excludes:* packaging, bottling, wrapping machinery (373\*); bottling, canning, filling machinery (3731)

**3710 Food and beverage processing machinery—specialized, unspecified**

**3711 Food slicers**

**3712 Juice, oil, and fat extractors**

**3713 Meat grinders**

**3714 Mixers, blenders, whippers—food and beverage**

**3715 Butchering machinery**

*Skinning machinery*

*Deboning machinery*

*Filleting machinery*

**3716 Dairy and milk processing machinery—specialized**

*Butter-making machinery*

*Homogenizers*

*Clarifiers*

*Milking machines*

*Cream separators*

*Pasteurizers*

*Evaporators*

**3719 Food and beverage processing machinery—specialized, n.e.c.**

**372\* Medical, surgical, x-ray machinery and equipment**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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This source group classifies special process machinery which are primarily used in medical applications. X-ray machinery classified here may be used in industrial and other research applications as well as medical usage.

*Includes:* medical machinery and equipment; x-ray, magnetic resonance imaging (MRI's), fluoroscope machinery and equipment

*Excludes:* medical and surgical instruments (75\*); health care and orthopedic equipment, n.e.c. (752\*)

### **3720 Medical, surgical, x-ray machinery and equipment, unspecified**

#### **3721 Medical machinery and equipment, except x-ray**

*Hospital monitors*

#### **3722 X-ray, magnetic resonance imaging (MRI), and fluoroscope machinery and equipment**

*Fluoroscopic x-ray*

*Therapeutic x-ray*

*Radiographic x-ray*

*Computed tomography (CT)*

#### **3729 Medical, surgical, x-ray machinery and equipment, n.e.c.**

*Surgical robots*

### **373\* Packaging, bottling, wrapping machinery**

This source group classifies special process machinery which primarily perform packaging, bottling, and wrapping operations.

*Includes:* bottling, canning, filling machinery; packaging, wrapping, bundling machinery (including boxing machinery); product labeling machinery; sealing, stapling machinery

*Excludes:* agricultural balers (3111); bindery machinery (3751); banding, baling, strapping machinery (3492)

#### **3730 Packaging, bottling, wrapping machinery, unspecified**

#### **3731 Bottling, canning, filling machinery**

#### **3732 Packaging, wrapping, bundling machinery**

#### **3733 Product labeling machinery**

#### **3734 Sealing, stapling machinery**

#### **3739 Packaging, bottling, wrapping machinery, n.e.c.**

### **374\* Paper production machinery**

This source group classifies special process machinery which are

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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primarily operated in the paper production industry. A calender is a form of press which uses rollers or plates to smooth and glaze cloth, rubber, or paper, or to form these materials into thin sheets. Paper production calenders are classified here. All other calenders are classified in source code 3513 (Rolling mills, rolling, calendering machinery).

*Includes:* calenders and supercalenders used in paper production; coaters used in paper production; dryers used in paper production; formers used in paper production; slitters and winders used in paper production; washers, bleachers, and refiners used in paper production

*Excludes:* calenders other than those used in paper production (3513); coating machinery other than that used in paper production (3796)

- 3740 Paper production machinery, unspecified**
- 3741 Calenders, supercalenders—paper production**
- 3742 Coaters—paper production**
- 3743 Dryers—paper production**
- 3744 Formers—paper production**
- 3745 Slitters, winders—paper production**
- 3746 Washers, bleachers, refiners—paper production**
- 3749 Paper production machinery, n.e.c.**

### **375\* Printing machinery and equipment**

This source group classifies special process machinery and equipment which are primarily operated in the printing industry.

*Includes:* bindery machinery; engraving machinery; printing presses; typesetting machinery

*Excludes:* presses other than printing presses (356); laser and other computer printers (3615)

- 3750 Printing machinery and equipment, unspecified**
- 3751 Bindery machinery**
- 3752 Engraving machinery**
- 3753 Presses—printing**
- 3754 Typesetting machinery**
- 3759 Printing machinery and equipment, n.e.c.**

### **376\* Textile, apparel, leather production machinery**

This source group classifies special process machinery and equipment

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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which are primarily employed in the textile, apparel, and leather production industries.

*Includes:* textile dyeing machinery; knitting machinery; picking, carding, combing machinery; sewing, stitching machinery; spinning machinery; weaving machinery

*Excludes:* dyeing machinery other than for textiles (3793)

**3760 Textile, apparel, leather production machinery, unspecified**

**3761 Dyeing machinery—textile**

**3762 Knitting machinery**

**3763 Picking, carding, combing machinery**

**3764 Sewing, stitching machinery**

**3765 Spinning machinery**

**3766 Weaving machinery**

**3769 Textile, apparel, leather production machinery, n.e.c.**

**379\* Other special process machinery**

This source group classifies special process machinery and equipment which perform special functions or processes other than those previously classified.

*Includes:* centrifuges; distilling and rectifying machinery; dyeing machinery other than for textiles; gas liquefying machinery; paint mixing machinery; painting, priming, metal coating machinery; pumps, except air compressor

*Excludes:* road linemarking machinery (3258); textile dyeing machinery (3761); paper coating machinery (3742); powered handheld paint sprayers (7292); air compressor pumps (3991)

**3790 Other special process machinery, unspecified**

**3791 Centrifuges**

**3792 Distilling and rectifying machinery**

**3793 Dyeing machinery, except textile**

**3794 Gas liquefying machinery**

**3795 Paint mixing machinery**

**3796 Painting, priming, metal coating machinery**

**3797 Pumps**

*Centrifugal pumps*

*Concrete pumps*

*Fluid power pumps*

*Gasoline pumps*

*Oil well pumps, pump jacks*

*Water, sump pumps*

\*-Asterisks denote a summary level code not assigned to individual cases.

**3799 Special process machinery, n.e.c.**

**39\* Miscellaneous machinery**

This major group classifies machinery which perform functions or processes other than those previously classified.

*Includes:* audio and video equipment; product assembly equipment, n.e.c.; product testing, inspecting, and diagnostic machinery, n.e.c.; other machinery

*Excludes:* hoisting accessories (43\*); machinery parts (44\*); motors (4414); engines (4424); nonpowered handtools (71\*); powered handtools (72\*); vehicles (8\*); plant and industrial powered vehicles (86\*); tractors, PTOs (863\*); forklifts (8621)

**390 Miscellaneous machinery, unspecified**

**391\* Audio and video equipment**

This source group classifies equipment and electronic appliances which are used to transmit, receive, play, and record audio and video communications.

*Includes:* radios, stereos, and other audio equipment; telephones and communication equipment; televisions; video players and recorders

*Excludes:* dictation machines (3629); hospital monitors (3721); computer equipment (361\*); cameras and other photographic equipment (761\*)

**3910 Audio and video equipment, unspecified**

**3911 Audio equipment**

<i>Clock radios</i>	<i>Stereos</i>
<i>Microphones</i>	<i>Speakers</i>
<i>Radios</i>	

**3912 Stationary telephones and communication equipment**

*Desk phones*

**3913 Mobile phones, personal digital assistants, other mobile devices**

<i>Cell phones</i>	<i>Palm type computers</i>
<i>Pagers</i>	

**3914 Televisions**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### **3915 Video players and recorders**

*Digital video recorders*

### **3919 Audio and video equipment, n.e.c.**

### **392 Product assembly machinery, n.e.c.**

This code classifies machinery which performs product assembly operations other than those previously classified.

*Includes:* product assembly robots, assembly line machinery not elsewhere classified

*Excludes:* welding machinery (3594)

### **393 Product testing, inspecting, and diagnostic machinery, n.e.c.**

This code classifies product testing, inspecting, and diagnostic machinery other than those previously classified.

*Includes:* product-vibrating machinery; diagnostic machinery

*Excludes:* hospital diagnostic machinery (372); mineral property analyzers (3249)

### **399\* Other machinery**

This source group classifies machinery which perform specific functions or processes which are not classified elsewhere in the Machinery division.

*Includes:* air compressors; garbage disposals; incinerators; snowblowers; trash compactors; vending machines

*Excludes:* hoisting accessories (43\*); machinery parts (44\*); motors (4414); engines (4424); nonpowered handtools (71\*); powered handtools (72\*); vehicles (8\*); plant and industrial powered vehicles (86\*); tractors (863\*); forklifts (8621); snow plows (8429); street sweepers (894)

### **3990 Other machinery, unspecified**

#### **3991 Air compressors**

*Pump—air compressor*

#### **3992 Garbage disposals**

#### **3993 Incinerators**

#### **3994 Snowblowers**

\*-Asterisks denote a summary level code not assigned to individual cases.

**SOURCE**

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**3995** Trash compactors  
**3996** Vending machines

**3999** Machinery, n.e.c.  
*Voting machines*

*Gas meters*

\*-Asterisks denote a summary level code not assigned to individual cases.



### 4\* PARTS AND MATERIALS

This division classifies machine parts, tool parts, and automobile parts, as well as building materials, insulating materials, and nonstructural metal materials. Many of the parts and materials classified here are the smaller components of larger machines, tools, vehicles, buildings, etc. In most instances, detailed codes for "parts" are provided for those parts expected to be sources of injury independent of the "whole" machine, tool, vehicle, building, or other object.

If a part is **attached** to a machine, tool, or vehicle, then the entire machine, tool, or vehicle should be listed as the source, unless the event is overexertion or the injury was inflicted by an electrical cord, overhead powerline, or floor of a vehicle in a non-transportation incident.

If a part is known to be **unattached and independent** of a machine, tool, or vehicle—or if it is probable that a machine, tool, or vehicle is not involved in the injury—then that specific part should be listed as the source.

If the material identified as the source of an injury is the **general floor surface in a building or on the ground**, then the appropriate structure or surface in Division 6 (Structures and Surfaces) should be listed as the source.

If the material identified as the source of an injury is an **independent, unattached element**, then that specific element (part or material) should be listed as the source.

*Includes:* building materials—solid elements; structural metal materials; fasteners, connectors, ropes, ties; hoisting accessories; machine, tool, and electric parts; metal materials—nonstructural; tars, sealants, caulking, insulating material; tarps and sheeting—nonmetal; vehicle and mobile equipment parts

*Excludes:* chemicals and chemical products (1\*); paint, lacquer, shellac, varnish (186\*); containers (2\*); hoses (2122); furniture and fixtures (2\*); lighting fixtures (224\*) and plumbing fixtures (225\*); machinery (3\*); metallic minerals (54\*); nonmetallic minerals (55\*); structural elements (65\*); vehicles (8\*); apparel and textiles (91\*); paper, sheets (932)

#### 40 Parts and materials, unspecified

#### 41\* Building materials—solid elements

This major group classifies materials which are primarily used in the construction of buildings and other structures.

*Includes:* bricks, blocks, structural stone; pipes, ducts, tubing; structural

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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metal materials; tiles, shingles; wood, lumber; other building materials

*Excludes:* building systems (64\*); structural elements (65\*); doors (6511); fences and gates (652\*); roof (654\*); skylights (6541); walls (656\*); windows (653); structures (63\*); office, plant, and residential buildings (62\*); scaffolds, staging (634\*)

### **410 Building materials, unspecified**

### **411\* Bricks, blocks, structural stone**

This source group classifies bricks, blocks, and structural stone materials which are primarily used in the construction of buildings, surfaces, and other structures.

*Includes:* bricks and pavers (ornamental, decorative paving blocks); concrete blocks, cinder blocks; structural stones or slabs

*Excludes:* metallic minerals (54\*) nonmetallic minerals (55\*); boulders (552); clay (553); rocks (556); countertops (2213)

### **4110 Bricks, blocks, structural stone, unspecified**

### **4111 Bricks and pavers**

*Ornamental, decorative paving blocks*

### **4112 Concrete blocks, cinder blocks**

### **4113 Stone, marble, granite slabs**

### **4114 Structural stones or slabs, n.e.c.**

*Preformed sidewalk slabs* *Concrete slab*

### **4119 Bricks, blocks, structural stone, n.e.c.**

### **412\* Pipes, ducts, tubing**

This source group classifies pipes, ducts, and tubing which are primarily used in buildings and other structures which require water, gas, electricity, or ventilation. **Hoses and pressure lines are classified in major group 212 (Containers—pressurized).**

*Includes:* concrete or clay pipes and conduits; ducts; metal pipe, tubing (including stove pipe, flu lining); pipe fittings; plastic or rubber pipe and tubing including PVC pipes; tubulars

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Excludes:* hoses (2122); pressure lines, except hoses (2124); flashing (4192); gutters, downspouts (4194); building systems (64\*)

**4120 Pipes, ducts, tubing, unspecified**

**4121 Concrete or clay pipes and conduits**

**4122 Ducts**

**4123 Metal pipes, tubing**

*Tubulars*

**4124 Pipe fittings, collars**

**4125 Plastic, PVC, or rubber pipes and tubing**

**4129 Pipes, ducts, tubing, n.e.c.**

**413\* Structural metal materials**

This source group classifies structural products made from metal. Structural metal materials that are permanent elements of buildings and other structures are classified in Division 6 (Structures and Surfaces). If the material of an unattached beam is unknown, use code 4133.

*Includes:* angle irons; bars, rods, reinforcing bar (rebar); beams; grates; plates, metal panels; rails; sheet metal; steel channel

*Excludes:* flashing (4192); gutters, downspouts (4194); aluminum siding (4196); structural metal materials that are elements of buildings and other structures (6\*); wooden beam (4153); beams attached to a building (6551)

**4130 Structural metal materials, unspecified**

**4131 Angle irons**

**4132 Bars, rods, reinforcing bar (rebar)**

**4133 Beams—unattached metal**

**4134 Grates**

**4135 Metal plates, metal panels**

**4136 Rails—unattached metal**

**4137 Sheet metal**

**4139 Structural metal materials, n.e.c.**

*Steel channel*

**414\* Tiles, shingles**

This source group classifies roof, ceiling, and floor tiles, as well as roof shingles. If an injury is produced by a bundle of shingles or tiles, use code 2131, bundles, bales. If the tiles and shingles are part of a working surface

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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such as a roof, select the working surface, roof (654\*) in this case, as the source.

*Includes:* ceiling tiles; drain, roof, and multipurpose ceramic or stone tiles; roof shingles; vinyl floor tiles

*Excludes:* tiles and shingles as part of a bundle (2131); tiles and shingles as part of a working (roof) surface (654\*)

**4140 Tiles, shingles, unspecified**

**4141 Ceiling tiles**

**4142 Ceramic or stone tiles—drain, roof, multipurpose**

**4143 Roof shingles, except tile**

**4144 Vinyl floor tiles**

**4149 Tiles, shingles, n.e.c.**

**415\* Wood, lumber**

This source group classifies individual pieces of wood and lumber materials that are primarily used in the construction of buildings and other structures. Dimensional lumber or plywood sheets that are part of a banded bundle should be classified in source group 2131 (Bundles, bales) as a variable restraint container. Plywood, paneling, and lumber that are known to be parts of buildings or other structures should be classified in Division 6 (Structures and Surfaces). If the composition of an unattached beam is unknown, use code 4133.

*Includes:* dimensional lumber (2x4's, etc.); plywood, wood paneling; particle, chip and flake board; wood pieces, trim pieces

*Excludes:* boards and sheets as part of a bundle (2131); wood shingles (4143); boards and wood sheets as part of a building or other structure (6\*); metal beam (4133); beam attached to a building (6551)

**4150 Wood, lumber, unspecified**

**4151 Dimensional lumber: 2x4, 2x3, etc.**

**4152 Plywood, wood paneling; particle, chip, flake board**

**4153 Wooden beams**

**4154 Wood pieces, trim pieces, wood scraps, n.e.c.**

**4155 Wooden stakes**

**4159 Wood, lumber, n.e.c.**

**419\* Other building materials—solid elements**

This source group classifies other building materials that are primarily

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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used in protecting, sealing, and finishing building interiors and exteriors.

*Includes:* fencing and screening material, n.e.c.; flashing; glass, window panes; gutters, downspouts; sheet flooring; aluminum, vinyl siding; structural hardware, n.e.c.; wallboard, drywall, sheetrock

*Excludes:* paint, lacquer, shellac, varnish (186\*); rolls of fencing, screening (2133); bricks, blocks, structural stone (411\*); pipes, ducts, tubing (412\*); structural metal materials (413\*); tiles, shingles (414\*); plywood, wood paneling, particle board (4152); tars, sealants, caulking, insulating material (46\*); windshields, vehicle windows (484); mirrors (226\*)

### **4190 Other building materials—solid elements, unspecified**

#### **4191 Fencing and screening material, n.e.c.**

#### **4192 Flashing**

#### **4193 Glass building materials**

<i>Glass</i>	<i>Window panes</i>
<i>Glass blocks</i>	<i>Glass slabs</i>
<i>Sheet glass</i>	

#### **4194 Gutters, downspouts**

#### **4195 Sheet flooring**

#### **4196 Siding—aluminum, vinyl**

#### **4197 Structural hardware, n.e.c.**

<i>Door knobs</i>	<i>Locks</i>
<i>Latches</i>	

#### **4198 Wallboard, drywall, sheetrock**

#### **4199 Building materials—solid elements, n.e.c.**

### **42\* Fasteners, connectors, ropes, ties**

This major group classifies fasteners, connectors, and binders that are primarily used to hold materials together.

*Includes:* fasteners; ropes, ties; valves, nozzles; cable

*Excludes:* variable restraint containers (213\*); electrical wire (4411); cable accompanied by winches (4423); handtool clamps (7142)

#### **420 Fasteners, connectors, ropes, ties, unspecified**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### **421\* Fasteners**

This source group classifies any of various devices that are used to attach, connect, or secure things together.

*Includes:* clamps, couplings; nails, brads, tacks; nuts, bolts, washers; rivets; screws; spikes; staples; tape

*Excludes:* handtool clamps (7142); nonpowered staplers (7195); powered staplers (7236); safety pins (7941)

#### **4210 Fasteners, unspecified**

#### **4211 Clamps, couplings**

#### **4212 Nails, brads, tacks, nuts, bolts, washers**

#### **4213 Hinges**

#### **4214 Rivets**

#### **4215 Screws**

#### **4216 Spikes**

#### **4217 Staples**

#### **4219 Fasteners, n.e.c.**

*Tape*

### **422\* Ropes, ties, chains**

This source group classifies ropes and ties of any composition that are used primarily for binding things together. Similar to other machine and equipment parts, items in this category are coded as the source only if they are separate or independent of the "whole" or if the event is overexertion.

*Includes:* bands; bungee cords (including bungee jumping cords); chains, n.e.c.; rope, twine, string; strapping; nonelectrical wire; cable

*Excludes:* fasteners (421\*); electrical wire or cable (4411); cable accompanied by winches (4423); tape (4219)

#### **4220 Ropes, ties, chains, unspecified**

#### **4221 Bands**

#### **4222 Bungee cords**

#### **4223 Chains, n.e.c.**

#### **4224 Rope, twine, string**

*Mooring line*

*Boat line*

#### **4225 Strapping**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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**4226 Wire, cables—nonelectrical**

**4229 Ropes, ties, chains, n.e.c.**

**423 Valves, nozzles**

This source group classifies valves which are primarily used for connecting pipe together, or are used to control the flow of liquids and gases through a system.

*Excludes:* hoses (2122); pressure lines (2124); pipes (412\*)

**429 Fasteners, connectors, ropes, ties, n.e.c.**

**43\* Hoisting accessories**

This major group classifies unattached hoisting accessories which are primarily used in conjunction with the hoisting machinery classified in source group 344 (Overhead hoists). These are primarily hoisting machinery attachments designed to grip, pick up, or carry heavy materials. If the accessory is known to be attached to a hoisting machine, the entire machine should be listed as the source.

*Includes:* fixtures, load indicators; hooks, shackles, magnets, clamshells, orange peels, grapples, anchors, cant hooks, grapnels, grappling irons, grappling hooks; slings

*Excludes:* logging skidders, logging cable and grapple skidders (3233); pulleys, sheaves, block and tackle, cable, winches (4423)

**430 Hoisting accessories, unspecified**

**431 Fixtures, load indicators**

**432 Hooks, shackles, magnets, clamshells**

**433 Slings**

**439 Hoisting accessories, n.e.c.**

**44\* Machine, tool, and electric parts**

This major group classifies **unattached** machine, tool, electric, and vehicle parts and materials. In general, if a part classified in this group is **attached** to a machine, tool, or vehicle at the time of injury then that entire machine, tool, or vehicle should be listed as the source, unless the event is overexertion or the injury was inflicted by an electrical cord, overhead powerline, or floor of a vehicle in a non-transportation incident.

*Includes:* electric parts; machine and appliance parts; tool parts, accessories

*Excludes:* machinery (3\*); handtools (7\*); vehicles (8\*)

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\*-Asterisks denote a summary level code not assigned to individual cases.

**440 Machine, tool, and electric parts, unspecified**

**441\* Electric parts**

This source group classifies electric parts which primarily carry or generate electrical currents for machinery, vehicles, and other sources which require electrical systems. These codes are used regardless of whether they are attached to the electrical grid or are separate. Motor vehicle engines are coded in source group 482 whether those engines are fueled by fossil fuel, biofuel, electric motors, or some other fuel source or combination of fuel sources.

*Includes:* electrical wiring or cable; generators; magnetic and electrolytic apparatus; motors; power lines, transformers, convertors; relays, rheostats, starters, controls; switchboards, switches, fuses, fused cutouts; batteries except vehicle; alternators, armatures, coils, distributors, spark plugs

*Excludes:* battery acid (1115); lamps, light bulbs (224\*); nonvehicle fans (3312); nonelectrical wiring (4226); nonvehicle engines, turbines (4424); vehicle engines (4823); vehicle batteries (4821); vehicle fans (4824); electrical towers (6352)

**4410 Electric parts, unspecified**

**4411 Electrical wiring—building**

**4412 Generators**

**4413 Batteries other than automotive**

**4414 Motors other than vehicle**

**4415 Power lines, transformers, convertors**

*Overhead power lines*

*Underground power lines*

**4416 Relays, rheostats, starters, controls**

*Voltage dividers*

*Variable resistors*

**4417 Switchboards, switches, fuses**

*Junction boxes*

*Power panels*

*Breaker boxes*

*Electrical boxes*

*Electrical panels, boards*

*Circuit boxes*

*Fuse boxes*

*Electrical outlets*

*Light switches*

**4418 Power cords, electrical cords, extension cords**

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\*-Asterisks denote a summary level code not assigned to individual cases.



## SOURCE

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### **4419 Electric parts, n.e.c.**

*Magnetic and electrolytic apparatus*

*Battery chargers*

*Surge suppressors*

### **442\* Machine and appliance parts**

This source group classifies unattached parts which primarily function as the operating parts of machines and appliances. Included here is mechanical power transmission equipment for industrial machinery and aircraft. Vehicle parts and engines are classified in major group 48 (Vehicle and mobile equipment parts).

Electrical equipment for automobiles (except batteries) and other internal combustion engines, such as generators and alternators, is included in source group 441 (Electric parts).

This source group also includes machine parts which are used for molding, stamping, cutting, or shaping. Some items included here are punches, forming and stamping devices, dies, steel rule, diamond dies, and die-casting molds.

If a part is known or assumed to be **attached** to a machine when an injury occurs, then that entire machine should be listed as the source, unless the event is overexertion or the injury was inflicted by an electrical cord, overhead powerline, or floor of a vehicle in a non-transportation incident.

If a part is known to be **unattached and independent** of a machine, or if it is probable that a machine is not involved, then that specific part should be selected as the source.

*Includes:* dies, molds, patterns; chain, leather, fabric, and vee belt drives; drums, pulleys, sheaves (blocks), cable and winches; nonvehicle engines, turbines; friction clutches; gears; rollers

*Excludes:* roller conveyors (3412); molding machinery (353\*); hoisting accessories (43\*); vehicle engines (482\*); cables not attached to winches (4226)

### **4420 Machine and appliance parts, unspecified**

#### **4421 Dies, molds, patterns**

#### **4422 Drives—chain, leather, fabric, vee belt**

#### **4423 Drums, pulleys, sheaves**

*Block and tackle*

*Crown block*

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Traveling block*

*Winches and accompanying  
cable*

**4424 Engines, turbines, except vehicle**

**4425 Friction clutches**

**4426 Gears**

**4427 Rollers**

**4429 Machine and appliance parts, n.e.c.**

*Machine doors*

*Machine safety hatch*

**443\* Tool parts, accessories**

This source group classifies unattached tool parts and accessories.

If a part is known to be **attached** to a tool or machine when an injury occurs, then the entire tool or machine should be listed as the source, unless the event is overexertion or the injury was inflicted by an electrical cord, overhead powerline, or floor of a vehicle in a non-transportation incident.

If a part is known to be **unattached** and independent of a tool or machine, or if it is **unknown** whether a tool or machine is involved, then that specific part should be selected as the source.

*Includes:* unattached drill bits; unattached saw blades

*Excludes:* machinery (3\*); stationary drills (3521); stationary sawing machinery (357\*); nonpowered cutting handtools (712\*); powered cutting handtools (722\*)

**4430 Tool parts, accessories, unspecified**

**4431 Drill bits—unattached**

**4432 Saw blades—unattached**

**4439 Tool parts, accessories, n.e.c.**

**449 Machine, tool, and electric parts, n.e.c.**

**45\* Metal materials—nonstructural**

This major group classifies nonstructural metal materials that are primarily formed to be further developed into structural metal products (e.g., reinforcing bar, sheet metal, but may also remain in a nonstructural condition as well (e.g., precious metal ingots, bars, etc.). Both hot and cooled slag are included in code 452.

*Includes:* nonstructural metal sheets, ingots, bars; molten or hot metals, slag

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Excludes:* structural bars (4132); structural plates, panels (4135); structural sheet metal (4137)

**450 Metal materials—nonstructural, unspecified**

**451 Metal sheets, ingots, bars—nonstructural**

**452 Molten or hot metals, slag**

**459 Metal materials—nonstructural, n.e.c.**

**46\* Tars, sealants, caulking, insulating material**

This major group classifies liquid and fiber materials which are primarily used to seal gaps or openings in roofs, walls, windows, and other fixtures, as well as provide insulation in buildings and other structures.

*Includes:* roofing asphalt, roofing tar; fiberglass insulation; foam caulking, foam insulation; joint compound, patching compounds; plastic, vinyl caulking; sealants, waterproofers, n.e.c.

*Excludes:* adhesives (181); paint (1862); paint thinner (1872); caulking guns (7199); polyurethane spray-on coatings (1751); paving asphalt, asphaltic cement (1644)

**460 Tars, sealants, caulking, insulation, unspecified**

**461 Roofing asphalt, roofing tar**

**462 Fiberglass insulation**

*Fibrous glass*

**463 Foam caulking, foam insulation**

**464 Joint compound, patching compound**

**465 Plastic, vinyl caulking**

**466 Sealants, waterproofers, n.e.c.**

**469 Tars, sealants, caulking, insulation, n.e.c.**

**47\* Tarps and sheeting—nonmetal**

This source group classifies nonmetal plastic, felt, and other fabric tarps and sheeting primarily used to protect the interiors and surfaces of structural elements such as roofs, ceilings, walls, and floors.

*Includes:* roofing paper, roofing felt; plastic tarps, ground cloths, fabric sheeting; cardboard and paperboard

*Excludes:* rolls of roofing paper (2133); tars, sealants, caulking, insulation (46)

**470 Tarps and sheeting—nonmetal, unspecified**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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- 471 Roofing paper, roofing felt**
- 472 Tarps, plastic or fabric sheeting**
- 473 Plastic wrap**

- 474 Cardboard**

*Includes:* paperboard, pasteboard, corrugated fiberboard, container board, poster board, boxboard

*Excludes:* cardboard boxes (2114)

- 479 Tarps and sheeting—nonmetal, n.e.c.**

- 48\* Vehicle and mobile equipment parts**

This source group classifies unattached parts which primarily function as the operating parts of vehicles and mobile equipment.

Electrical equipment for automobiles (except batteries) and other internal combustion engines, such as generators and alternators, is included in source group 441 (Electric parts). Mechanical power transmission equipment (e.g., engines, gears) for industrial machinery and aircraft is classified in source group 442 (Machine and appliance parts).

If a part is known to be **attached** to a vehicle when an injury occurs, then the entire vehicle should be listed as the source, unless the event is overexertion or the injury was inflicted by an electrical cord, overhead powerline, or floor of a vehicle in a non-transportation incident.

If a part is known to be **unattached** and independent of a vehicle, or if it is **unknown** whether a vehicle is involved (for example, during vehicle assembly), then that specific part should be selected as the source.

*Includes:* tires, inner tubes, wheels; engine parts and accessories; trailers; vehicle windshields, vehicle windows

*Excludes:* lightbulbs (2242); nonvehicle glass (4193); electric parts (441\*); nonvehicle engines (4424); nonvehicle windows (653); vehicles (8\*); trailer trucks (8421)

- 480 Vehicle and mobile equipment parts, unspecified**

- 481\* Tires, inner tubes, wheels**

This source group classifies unattached tires, inner tubes, and wheels used mostly in conjunction with vehicles and mobile equipment.

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Includes:* bike tires; tire inner tubes; all other tires (except bike); wheels, tire rims

*Excludes:* pulleys (4423); vehicles (8\*)

**4810 Tires, inner tubes, wheels, unspecified**

**4811 Bike tires**

**4812 Tire inner tubes**

**4813 Tires, except bike**

**4814 Wheels, tire rims**

**4819 Tires, inner tubes, wheels, n.e.c.**

**482\* Engine parts and accessories**

This source group classifies unattached vehicle engine parts and accessories which are not connected to a vehicle when an injury occurs. All motor vehicle engines are coded here whether those engines are fueled by fossil fuel, biofuel, electric motors, or some combination (hybrid vehicles).

*Includes:* vehicle battery; belts, hoses; vehicle engine; vehicle motor; engine block; fan; muffler, exhaust; radiator; transmission

*Excludes:* garden hoses (2122); house fans (3312); nonvehicle batteries (4413); nonvehicle transmission systems (442\*); vehicles (8\*); motor, generator, alternator (441\*)

**4820 Engine parts and accessories, unspecified**

**4821 Battery—vehicle**

**4822 Belts, hoses—vehicle**

**4823 Engine, engine block, motor—vehicle**

**4824 Fan—vehicle**

**4825 Muffler, exhaust**

**4826 Radiator—vehicle**

**4827 Transmission—vehicle**

**4829 Engine parts and accessories, n.e.c.**

**483 Trailers**

This source group classifies trailers which are not connected to a vehicle when an injury occurs.

*Includes:* unattached car and truck trailers, feed wagons

*Excludes:* semitrailers, trailer trucks (8421); motor homes, RVs (8417); mobile or prefabricated homes (6254)

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### **484 Windshields, vehicle windows**

This source group classifies vehicle windshields and windows that are not installed on a vehicle when an injury occurs.

*Includes:* unattached vehicle windshields, windows

*Excludes:* nonvehicle glass (4193); nonvehicle windows (653)

### **485\* Vehicle doors, liftgates, tailgates**

#### **4850 Vehicle doors, liftgates, tailgates, unspecified**

#### **4851 Vehicle passenger doors**

#### **4852 Liftgates**

#### **4853 Tailgates**

### **489 Vehicle and mobile equipment parts, n.e.c.**

*Airbags Forklift tines*

*Booms Headlights*

*Car seats*

### **49\* Other parts and materials**

This major group classifies all parts and materials that are not elsewhere classified. This category includes unattached caps, lids, and covers.

### **490 Other parts and materials, unspecified**

### **491\* Caps, lids, covers**

Caps, lids, and covers that are separated from their containers or other structures and cause injury are coded here. For example, if the cap from a pressurized pipe, hose, valve, or other container comes off and strikes or cuts an employee, the cap would be coded as the source. If the lid is still attached to the container, such as being struck by a dumpster lid, code the container. Caps worn on a person's head are coded 9113.

#### **4910 Caps, lids, covers, unspecified**

#### **4911 Container caps, lids, covers**

*Includes:* can lid, bottle cap, kettle lid, barrel lid, drum lid, tank end cap, gas cylinder cap, jar cover

#### **4912 Manhole and cistern covers**

#### **4919 Caps, lids, covers, n.e.c.**

\*-Asterisks denote a summary level code not assigned to individual cases.

**SOURCE**

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**499 Parts and materials, n.e.c.**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### **5\* PERSONS, PLANTS, ANIMALS, AND MINERALS**

This division classifies living organisms (including infectious and parasitic agents) and their products, as well as raw metallic and nonmetallic minerals. Work-related HIV infections are classified in source group 533 (Viruses).

*Includes:* animals and animal products; fresh or processed food products; infectious and parasitic agents; metallic minerals; nonmetallic minerals (except fuel); person—injured or ill worker; person—other than injured or ill worker; bodily fluids; unprocessed plants, trees, vegetation

*Excludes:* chemicals (1\*); metallic particulates, trace elements, dusts, powders, fumes (14\*); structural and nonstructural metal materials (4\*); lumber (415\*)

### **50 Persons, plants, animals, and minerals, unspecified**

#### **51\* Animals**

This major group classifies living animals (except humans).

*Includes:* birds and fowl; fish, shellfish; insects, arachnids, mites (spiders, bees, ticks, scorpions); mammals (except humans); reptiles

*Excludes:* food products (522\*); nonfood animal products (521\*); humans, persons (56\* and 57\*); animal manure (5216); animal carcass, roadkill (5215)

#### **510 Animals, unspecified**

#### **511\* Birds and fowl**

This source group classifies birds and fowl in a living or natural, unprocessed condition.

*Includes:* birds (except fowl); chickens; ducks; geese; turkeys

*Excludes:* bats (5159), processed poultry or other poultry products (5227)

#### **5110 Birds and fowl, unspecified**

#### **5111 Birds, except fowl**

#### **5112 Chickens**

*Includes:* roosters

\*-Asterisks denote a summary level code not assigned to individual cases.



## SOURCE

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- 5113 Ducks**
- 5114 Geese**
- 5115 Turkeys**
- 5119 Birds and fowl, n.e.c.**

### **512 Fish, shellfish**

*Excludes:* shellfish food products (5227)

### **513\* Insects, arachnids, mites**

*Includes:* ants, bees, scorpions, spiders, ticks, wasps, lice, fleas, bedbugs, flies, mosquitoes, hornets

- 5130 Insects, arachnids, mites, unspecified**
- 5131 Bees, hornets, wasps**
- 5132 Spiders, scorpions**

#### **5133 Ants**

*Includes:* fire ants

#### **5134 Lice, fleas, bedbugs**

#### **5135 Mosquitoes**

#### **5136 Ticks and mites**

*Includes:* scabies, chiggers

#### **5138 Multiple insects, arachnids, mites**

#### **5139 Insects, arachnids, mites, n.e.c.**

*Includes:* beetles, flies

### **514\* Reptiles**

- 5140 Reptiles, unspecified**
- 5141 Venomous snakes**
- 5142 Nonvenomous snakes**
- 5149 Reptiles, n.e.c.**

*Includes:* alligators, crocodiles, lizards, turtles

### **515\* Mammals, except humans**

This source group classifies all mammals (except humans) in a living or

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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natural intact condition. Persons are classified in major groups 56 and 57.

*Includes:* cats and other domestic felines; domestic dogs; cattle and other bovine (cows, buffalo, bison); horses and other equine (ponies, mules, donkeys, zebras); rodents (rats, mice, squirrels); sheep, goats and other caprids (pronghorn antelope, lambs); swine and other porcine (pigs, boars, hogs); deer and other cervids (elk, moose, caribou, reindeer)

*Excludes:* nonfood animal products (521\*); processed food products (522\*); animal carcass, roadkill (5215)

### **5150 Mammals, unspecified**

#### **5151 Cats, felines—domestic**

*Includes:* house cats, alley cats, kittens, feral cats

*Excludes:* tigers, leopards, lions (5159)

#### **5152 Dogs, canines—domestic**

*Includes:* hunting dogs, sled dogs, police dogs

*Excludes:* wolves (5159)

#### **5153 Cattle and other bovines**

*Includes:* beef and dairy cattle, buffalo, bison, yak, cows, calves, bulls

*Excludes:* beef food products (5227)

#### **5154 Horses and other equines**

*Includes:* horses, ponies, mules, donkeys, zebras

#### **5155 Rodents**

*Includes:* rats, mice, squirrels

#### **5156 Sheep, goats, and other caprids**

*Includes:* sheep, goats, pronghorn antelope, lambs

#### **5157 Swine and other porcines**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Includes:* pigs, boars, hogs

### **5158 Deer and other cervids**

*Includes:* elk, moose, caribou, reindeer

### **5159 Mammals, n.e.c.**

*Includes:* lions, tigers, leopards, bears, giraffes, elephants, wolves, monkeys, primates, bats, rabbits, raccoons

### **519 Animals, n.e.c.**

## **52\* Animal and plant byproducts**

### **520 Animal and plant byproducts, unspecified**

### **521\* Animal products, nonfood**

This source group classifies raw or unprocessed nonfood animal products

*Includes:* bones (including fossilized bones), shells; feathers; fur, wool; leather hides; animal carcasses and roadkill; animal waste products

*Excludes:* bone meal, ground oyster shells, dried animal blood used as fertilizer or plant food (151); food products (522\*); apparel and textiles (91\*)

### **5210 Animal products—nonfood, unspecified**

#### **5211 Bones, shells**

#### **5212 Feathers**

#### **5213 Fur, wool**

#### **5214 Hides—leather**

#### **5215 Animal carcass, roadkill**

### **5216 Animal waste products**

*Includes:* manure

### **5219 Animal products—nonfood, n.e.c.**

*Includes:* animal fluids and blood

## **522\* Food products**

This source group classifies fresh or processed foods obtained from

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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animals or plants. Use these codes if worker is burned by hot food, is struck by or slips on food, or becomes ill due to an allergic reaction or food poisoning from consumed food or contact with food. If a worker is injured carrying large cases or bags of food, code the box or bag.

*Includes:* bakery products, candy, confections, snack foods; beverages, n.e.c.; dairy products; fruits, nuts, vegetables; grains, cereals, grain mill products; meat, poultry; seafood; multiple foods or groceries; fats, oils, cooking greases; sugar, cocoa, chocolate

*Excludes:* cash grain crops (581), field crops (582), grain dust (5891), flavorings (1893)

### **5220 Food products, unspecified**

### **5221 Fats, oils, cooking greases**

*Includes:* butter

### **5222 Soups, sauces, gravies**

*Includes:* hot soups, stocks, broths, tomato sauces, hot sauces

### **5223 Dairy products**

*Includes:* milk, yogurt, cheese

### **5224 Beverages, n.e.c.**

*Includes:* coffee, juices, tea, hot chocolate

### **5225 Fruits, nuts, vegetables**

*Includes:* peanuts, peanut products

### **5226 Grains, cereals, grain mill products**

*Includes:* hot cereals, corn

### **5227 Meat, poultry, seafood**

*Includes:* meat and meat products; beef carcasses; chicken—meat; poultry—meat

### **5228 Multiple foods or groceries**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### **5229 Food products, n.e.c.**

*Includes:* bakery products, candy, pet food, snack foods, sugar, cocoa, chocolate

### **529 Animal and plant byproducts, n.e.c.**

### **53\* Infectious and parasitic agents**

This major group classifies organic (living) infectious and parasitic agents including bacteria, fungi (including mold and mildew), and viruses, including work-related HIV infections.

*Includes:* bacteria; fungi; viruses (including HIV)

### **530 Infectious and parasitic agents, unspecified**

#### **531 Bacteria**

*Includes:* spirochetes

#### **532\* Fungi**

##### **5320 Fungi, unspecified**

##### **5321 Mold, mildew**

##### **5329 Fungi, n.e.c.**

#### **533 Viruses**

### **539 Infectious and parasitic agents, n.e.c.**

### **54\* Metallic minerals**

This major group classifies raw, natural metallic minerals (or combination of minerals) from which a metal (or metals) or radiation can be extracted.

*Includes:* nonradiating metal ores; natural and processed radiating metals

*Excludes:* metallic particulates, trace elements, dusts, powders, fumes (14\*); structural and nonstructural metal materials (4\*); nonmetallic minerals, except fuel (55\*)

#### **540 Metallic minerals, unspecified**

#### **541 Metal ores—nonradiating**

This source group classifies nonradiating metal ores.

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Includes:* copper ore; gold, platinum, silver ore; iron ore; lead ore; zinc ore; mercury ore; nickel ore; tin ore

*Excludes:* molten metal (452)

### **542\* Radiating metals, natural and processed**

This source group includes substances which emit energy in the form of rays of light, heat, alpha, beta, gamma, etc. This code would be used only in cases of radiation injuries. Reactor fuel or waste can be either uranium or plutonium and, therefore, should be classified in 5420 (unspecified) unless the type is specified.

*Includes:* plutonium; radium; uranium

*Excludes:* nonradiating metal ores (541)

#### **5420 Radiating metals, natural and processed, unspecified**

#### **5421 Plutonium**

#### **5422 Radium**

#### **5423 Uranium**

#### **5429 Radiating metals, natural and processed, n.e.c.**

### **549 Metallic minerals, n.e.c.**

### **55\* Nonmetallic minerals, except fuel**

This major group classifies natural and processed products of mining, excavating, landslides, etc., except fuel. Unspecified dirt or dust particles are coded in 9411.

*Includes:* asbestos; boulders; natural and processed clay; dirt, earth; mud; rocks, crushed stone; sand, gravel; silica

*Excludes:* dry cement, mortar mix (1121); fuel (16); ditches, channels, trenches, excavations (611); mines, caves, tunnels (612\*); unspecified dirt or dust particles (9411)

#### **550 Nonmetallic minerals, except fuel, unspecified**

#### **551 Asbestos**

This source group classifies asbestos minerals: rock-forming minerals that are separated into long, thread-like fibers.

*Includes:* asbestos dust

#### **552 Boulders**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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This source group classifies large masses of stone detached from the mass as they are primarily found in natural settings.

### **553 Clay—natural and processed**

This source group classifies all types of natural and processed clay: a fine-grained earth used in the manufacture of bricks, pipes, pottery, and other ceramics.

### **554 Dirt, earth**

This source group classifies all types of dirt, soil, and earth not specified elsewhere.

### **555 Mud**

### **556 Rocks, crushed stone**

This source group classifies hard, nonmetallic mineral matter not specified elsewhere as may be found in quarries or in natural settings. Gravel is classified in 557.

### **557 Sand, gravel**

This group includes all types of sand and gravel used for a variety of purposes.

### **558 Silica**

This group classifies hard, glassy mineral (silica) found in a variety of forms such as quartz, sand, and opal.

*Includes:* silica dust

### **559 Nonmetallic minerals, except fuel, n.e.c.**

*Includes:* vermiculite

### **56\* Person—injured or ill worker**

This major group classifies bodily conditions and self-induced bodily motion injuries.

*Includes:* bodily conditions of injured, ill worker; bodily motion or position of injured, ill worker

*Excludes:* injuries or illnesses inflicted by bodily fluids, substances, or other

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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persons (57\*)

**560 Person—injured or ill worker, unspecified**

**561 Bodily conditions of injured, ill worker**

This source group classifies physical, mental, or emotional conditions—such as unexplained faintings, heart attacks not attributed to other sources, and work-related stress—which result in nervous disorders, symptoms or illnesses. This code must be used when Event or exposure is **74, Bodily conditions, n.e.c.**

**562 Bodily motion or position of injured, ill worker**

This source group classifies stress or strains induced by a free movement of the body or its parts, with no impact involved. This group is also used for coding awkward or sustained positions of the injured worker as well as the motion of the person for motion sickness cases. This code must be used when the Event or exposure is coded as **Repetitive motions involving microtasks (72\*) or other exertions or bodily reactions (73\*)**.

**569 Person—injured or ill worker, n.e.c.**

This code is used as the source for suicides and other intentional self-inflicted injuries.

**57\* Person—other than injured or ill worker**

This major group classifies various types of persons other than the injured or ill worker. In general, people are classified according to their relationship with the injured or ill worker or with the establishment for which the employee works.

Spouses and domestic partners (5711) include current and former spouses, common law spouses, and current and former boyfriends and girlfriends even if not known whether living together. Other friends of the injured or ill worker are coded as Acquaintances (576). If a person can be classified in more than one category (571-577, 579), choose the first code in the list describing the person's relationship with the injured worker or establishment. For example, if a co-worker robs a business, choose co-worker (5721) because it is listed before robber. However, if a police officer is shot while trying to apprehend a person who had robbed a store, use code 5773 Suspect not yet apprehended, since the robber was not trying to rob the police officer.

**570 Person, other than injured or ill worker, unspecified**

**571\* Relative or domestic partner of injured or ill worker**

\*-Asterisks denote a summary level code not assigned to individual cases.



**5710 Relative or domestic partner of injured or ill worker, unspecified**

**5711 Spouse or domestic partner of injured or ill worker**

*Includes:* spouse, domestic partner, ex-spouse, estranged spouse, husband, ex-husband, wife, ex-wife, boyfriend, ex-boyfriend, girlfriend, ex-girlfriend, estranged boyfriend or girlfriend, common law spouse

*Excludes:* other room- or house-mates (576), relative other than spouse (5712 or 5719)

**5712 Immediate family member other than spouse**

*Includes:* son, daughter, father, mother, brother, sister, parent

**5719 Relative or domestic partner of injured or ill worker, n.e.c.**

*Includes:* uncle, aunt, cousin, nephew, niece, grandson, granddaughter, in-laws, grandparent

**572\* Co-worker or work associate of injured or ill worker**

This group includes an employee or past employee of the business, as well as a contractor working as a temporary employee on the same site. Co-workers are defined as people who know or directly work with the injured or ill worker, or have done so in the past. Work associates are individuals who may work (or have previously worked) for the same establishment, in the same building, or as a contractor, for example. Work associates are less likely to know the injured worker personally or work with him or her on a day-to-day basis. For example, for a nurse working in a hospital, doctors, nurses, supervisory nurses, technicians, and others who work directly with that nurse are co-workers. Other employees of the hospital, such as security, food service, or administrative personnel, are more likely to be work associates. When an athlete is injured during a sporting event or training exercise, code 5721, Co-worker, if the injury is from contact with a team member or fellow trainee. If the injury is from contact with someone from another team or an opponent as in a boxing match or wrestling meet, code 5723, Work associate. Other business competitors are coded in 5729, Co-worker or work associate, n.e.c.

**5720 Co-worker or work associate of injured or ill worker, unspecified**

**5721 Co-worker**

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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- 5722 Former co-worker**
- 5723 Work associate**
- 5724 Former work associate**
- 5729 Co-worker or work associate, n.e.c.**

*Includes:* business competitors

### **573 Student**

This category includes students in primary or secondary school, as well as college, university, or daycare students. Students in other types of training programs, such as martial arts or flight training, would be classified as Other client or customer (575).

### **574 Patient**

This code includes a patient in any type of healthcare facility, including doctor's and dentist's offices, hospitals, nursing homes, and mental health facilities. Patients cared for in their own homes and patients of emergency medical services are also included.

Mental health patients who have committed a crime and are in a correctional facility are coded as 5772. Residents of halfway houses and assisted living facilities are coded as Other clients or customers (575) unless the injured or ill employee was working in a health care capacity when injured by the patient.

### **575 Other client or customer**

This code includes persons with a legitimate relationship with the business and who are being served by the business.

*Includes:* bar patron, tenant, parolee, resident of halfway house or assisted living facility

*Excludes:* health care patients (574), inmates of correctional facilities (5772), robbers posing as customers (5771)

### **576 Acquaintance**

This code includes all other persons known to the injured worker.

*Includes:* friend, neighbor, roommate other than domestic partner, member of same gang

*Excludes:* family member (571\*), client (575), boyfriend or girlfriend (5711), patient (574), co-worker (572\*)

\*-Asterisks denote a summary level code not assigned to individual cases.

**577\* Assailant, suspect, inmate**

This group includes persons who have no legitimate relationship to the business of the injured worker or its employees and includes perpetrators of various types of robbery or theft.

**5770 Assailant, suspect, unspecified**

**5771 Robber**

If the worker was injured while he, she, or the establishment was being robbed, choose 5771. If the motive or the motive was unclear, choose 5770.

*Includes:* robber, shoplifter, mugger, carjacker

*Excludes:* co-workers (5721); former co-workers (5722); inmates or detainees in custody (5772); robbery suspect injuring responding police officer (5773)

**5772 Inmate or detainee in custody**

This category includes inmates of correctional institutions and suspects that have been apprehended or are being detained by police or security personnel.

*Includes:* mental health patient held in correctional facility, resident of correctional facility

*Excludes:* mental health patient held in other than correctional facility (574); residents of halfway houses (575)

**5773 Suspect not yet apprehended**

Choose this code when the worker is injured by someone who is suspected of a crime but not yet apprehended—such as when a police officer is shot while responding to a domestic violence call or in response to a shooting or robbery. Persons being apprehended or stopped for traffic violations and who have committed no other crimes are coded in 5779.

**5779 Assailant, suspect, n.e.c.**

Choose this code when a worker is injured by a person who is committing a crime, such as an injury during a sexual assault, hate crime, shooting spree, or traffic violation, and no other code is appropriate.

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Excludes:* robber (5771), detainee in custody (5772), suspect not yet apprehended (5773), relative (571\*), co-worker (572\*), client or customer (575), acquaintance (576), patient (574)

**578\* Bodily fluids or substances of other than injured or ill person**

**5780 Bodily fluids or substances of other than injured or ill person, unspecified**

**5781 Blood of other than injured or ill person**

**5782 Urine or feces of other than injured or ill person**

**5783 Mucus or saliva of other than injured or ill person**

**5788 Combination of bodily fluids or substances of other than injured or ill person**

**5789 Bodily fluids or substances of other than injured or ill person, n.e.c.**

**579 Person, other than injured or ill worker, n.e.c.**

**58\* Plants, trees, vegetation—not processed**

This major group classifies plants, trees, and vegetation in a natural or unprocessed condition. Source group 587, trees, logs, limbs, includes cut trees with or without limbs as well as tree branches. Thorns are coded according to the relevant plant. Pollen is coded 5899.

*Includes:* cash grain crops (including corn, rice, soybeans, wheat); field crops (including cotton, potatoes, sugarcane, tobacco); flowers; houseplants; poison ivy, oak, sumac; reeds, shrubs, marshes, grasses; trees, logs, limbs; vegetable plants

*Excludes:* lumber (415); processed wood pieces (4154); fresh or processed food products (522)

**580 Plants, trees, vegetation, unspecified**

**581 Cash grain crops**

**582 Field crops**

*Includes:* vegetable plants

**583 Flowers**

**584 Houseplants**

**585\* Poison ivy, oak, sumac, Rhus**

**5850 Poison ivy, oak, sumac, Rhus, unspecified**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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- 5851 Poison ivy**
- 5852 Poison oak**
- 5853 Poison sumac**
- 5859 Poison ivy, oak, sumac, Rhus, n.e.c.**

**586 Shrubs, grasses**

*Includes:* reeds, marsh plants

**587\* Trees, logs, limbs**

**5870 Trees, logs, limbs, unspecified**

**5871 Trees**

*Includes:* attached palm fronds, attached tree limbs or branches

**5872 Logs**

**5873 Limbs, branches—unattached**

*Includes:* unattached palm fronds, unattached tree or shrub branches

**5879 Trees, logs, limbs, n.e.c.**

*Tree stumps*

**589\* Other plants, trees, vegetation—not processed**

**5891 Grain dust**

**5899 Plants, trees, vegetation—not processed, n.e.c.**

*Plant burrs*

*Pollen*

**59 Persons, plants, animals, and minerals, n.e.c.**

This code classifies plants, animals, and minerals not elsewhere classified.

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### 6\* STRUCTURES AND SURFACES

This division classifies all types of structures and structural elements including building structures and systems, bridges, stadia, tunnels, towers, and dams as well as confined spaces, structural elements, and natural structures. Also classified here are walking, working, and road surfaces. Structural elements, including doors, windows, roofs, and walls, are classified in major group 65 (Other structural elements).

If the material identified as the source of an injury is the **general floor surface** in a building or on the ground, then the appropriate structure or surface in this division should be selected as the source.

If the material identified as the source of an injury is an **independent, unattached element**, then that specific element should be listed as the source, Part or material, Division 4. Structural elements such as prefabricated roof trusses and windows, structures in their own right, should be listed as the source regardless of whether they are independent or part of a building. Any ladder that is a fixed or temporary part of any structure is classified in major group 74 (Ladders).

*Includes:* building systems; floors, walkways, ground surfaces; other structural elements; structures

*Excludes:* bricks, blocks, structural stone (411\*); unattached structural metals (413\*); unattached building materials (41\*); ladders (74\*)

### 60 Structures and surfaces, unspecified

### 61\* Confined spaces

This major group classifies structures that are considered confined because their configurations hinder the activities of employees who must enter, work in, and exit them. A confined space has limited or restricted means for entry or exit, is not designed for continuous employee occupancy, and there is increased risk of exposure to serious physical injury from hazards such as entrapment, engulfment and hazardous atmospheric conditions. A workspace is included if it contains, or has the potential to contain a hazardous atmosphere; contains a material that has the potential to engulf an entrant; or has walls that converge inward or floors that slope downward and taper in a smaller area which could trap or asphyxiate an entrant. Spaces coded in this section may include spaces not considered as confined according to OSHA.

These codes would typically be used as the secondary source for incidents involving confined spaces.

*Includes:* ditches, channels, trenches, underground vaults, tanks, storage

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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bins, manholes, pits, silos, process vessels, pipelines, underground mines and tunnels, tanker truck interiors, confined spaces on ships

*Excludes:* building exteriors (62\*), passenger vehicles (841\*)

### **610 Confined spaces, unspecified**

### **611 Ditches, channels, trenches, excavations**

This code includes confined spaces that are open vertically but confined on the sides by trench walls, for example. Spaces that are confined vertically should be in source group 612 (Underground mines, caves, tunnels).

*Excludes:* non-confined culverts and ditches (6676)

### **612\* Underground mines, caves, tunnels**

This source group classifies underground mines, caves, sewers and storm drains, and tunnels (including subway, train, sewer, and pedestrian tunnels).

*Includes:* mines, mine tunnels (6121); pedestrian tunnels (6124); sewers, manholes, storm drains, and culverts (6122); subway and train tunnels (6123)

*Excludes:* ditches, channels, trenches, excavations (611); bridges (631); above-ground mines, strip mines (636); non-confined culverts (6676)

#### **6120 Mines, caves, tunnels, unspecified**

#### **6121 Underground mines, mine tunnels**

#### **6122 Sewers, manholes, storm drains**

#### **6123 Subway and train tunnels**

#### **6124 Underground pedestrian walkways**

#### **6129 Mines, caves, tunnels, n.e.c.**

### **613 Wells, cisterns**

### **614 Pipeline interiors**

### **615 Manure pits**

### **616 Spray, paint booths**

### **617\* Tank, bin, vat interiors**

*Excludes:* tanks and hoppers on vehicles (618\*)

### **6170 Tank, bin, vat interiors, unspecified**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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- 6171 Silo, grain bin interiors**
- 6172 Grain elevator interiors**
- 6173 Septic tank or water tank interiors**
- 6174 Trash bin or dumpster interiors**
- 6175 Trough interiors**
- 6176 Oil storage tank interiors**
- 6177 Hopper interiors**
- 6179 Tank, bin, vat interiors, n.e.c.**

*Includes:* Boiler interior (confined space)

### **618\* Confined spaces on vehicles**

- 6180 Confined spaces on vehicles, unspecified**
- 6181 Confined spaces on ships, water vessels**
- 6182 Tanker truck interiors**
- 6189 Confined spaces on vehicles, n.e.c.**

### **619\* Other confined spaces**

- 6191 Crawl spaces**
- 6199 Confined spaces, n.e.c.**

### **62\* Buildings—office, plant, residential**

This source group classifies office, plant, and residential buildings including factories, warehouses, sheds, barns, boat houses, apartments, skyscrapers, gas stations, schools, theaters, auditoriums, etc. Sports facilities are classified in 632, Grandstands, stadia. These codes are to be used for structure collapses (both caught in or fall resulting from), fires and explosions, and transportation collisions involving structures. Generally falls and jumps from buildings would be coded according to the structural element the worker fell or jumped from (roof, balcony, structural steel, elevator shaft). Exceptions are offshore oil platforms, silos, and grain bins. Areas within these structures that conform to the definition of a confined space are coded in 61\*.

#### **620 Building, unspecified**

#### **621\* Industrial buildings**

- 6210 Industrial building, unspecified**
- 6211 Warehouse**
- 6212 Factory, manufacturing plant**
- 6213 Offshore oil platform**
- 6219 Industrial building, n.e.c.**

#### **622\* Agricultural buildings**

\*-Asterisks denote a summary level code not assigned to individual cases.



## SOURCE

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**6220 Agricultural building, unspecified**

**6221 Barn**

**6222 Silo exterior**

*Excludes:* interior of silo (6171)

**6223 Grain bin exterior**

*Excludes:* interior of grain bin (6171)

**6229 Agricultural building, n.e.c.**

**623\* Commercial and retail buildings**

**6230 Commercial or retail building, unspecified**

**6231 Restaurant, bar**

**6232 Retail establishment, store, mall**

**6233 Hotel, motel, lodging establishment**

**6239 Commercial or retail building, n.e.c.**

**624\* Medical buildings, except institutional residential**

*Includes:* medical office buildings, doctor's and dentist offices in nonmedical facilities

**6240 Medical building, except institutional residential, unspecified**

**6241 Hospital**

**6242 Clinic or doctor's office**

**6243 Laboratory**

**6249 Medical building, except institutional residential, n.e.c.**

**625\* Residential buildings, except institutional**

Apartment buildings that are six or more stories or 75 or more feet high should be coded as 6252, high-rise apartment building, condominium. Apartment buildings that are five or fewer stories and less than 75 feet or whose height is unknown are coded as 6253, low or mid-rise apartment building, condominium.

**6250 Residential building, except institutional, unspecified**

**6251 House, townhouse, rowhouse**

**6252 High-rise apartment building, condominium**

**6253 Low or mid-rise apartment building, condominium**

*Includes:* garden style apartment building of unknown height

\*-Asterisks denote a summary level code not assigned to individual cases.

**6254 Mobile or prefabricated home**

*Includes:* trailer home

*Excludes:* recreational vehicles—RVs (8417)

**6259 Residential building, except institutional, n.e.c.**

**626\* Other public and office buildings**

Buildings that are six or more stories or 75 or more feet high should be coded as 6261. Buildings that are five or fewer stories and less than 75 feet are coded as 6262.

**6260 Other public or office building, unspecified**

*Excludes:* medical buildings (624\*)

**6261 Skyscraper, high-rise—except government**

*Excludes:* medical buildings (624\*)

**6262 Low or mid-rise office building—except government**

*Includes:* private school

*Excludes:* medical buildings (624\*)

**6263 Government building, post office**

*Includes:* public school, court house, municipal office building

*Excludes:* prisons, jails (628); hospitals (624)

**6269 Public or office building, n.e.c.**

**627 Institutionalized residential building, except jails**

**628 Prisons, jails**

**629 Building, n.e.c.**

**63\* Structures other than buildings**

This major group classifies any type of constructed structures (e.g., buildings, stadia, tunnels, pools, scaffolding, towers), including structures over land and water such as dams and bridges. Specific structural surfaces (floors, stairs) and elements (window, door, roof) which produce an injury are classified in major

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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groups 66 (Floors, walkways, ground surfaces) and 65 (Other structural elements).

*Includes:* bridges, dams, locks; grandstands, stadia; pools; scaffolds, staging; towers, poles; guardrails, road dividers; hydrants; road signs; railroad tracks; porches, balconies, patios

*Excludes:* floors, walkways, and ground surfaces (66\*); structural elements including doors, roofs, walls, windows, etc. (65\*); silos interiors (6171); silo exterior (6222); office, plant, and residential buildings (62\*); wells (613); confined spaces (61\*)

### **630 Structures other than buildings, unspecified**

#### **631 Bridges, dams, locks**

This code classifies all types of structural bridges, dams, and locks.

*Includes:* foot and swinging bridges over land or water; bridges and overpass abutments

#### **632 Grandstands, stadia**

This code classifies all grandstands, sports arenas, and stadia, including covered or enclosed facilities.

*Includes:* bleachers

*Excludes:* scaffolds and staging (634\*); buildings (62\*); athletic fields (663\*)

#### **633 Pools**

This code classifies above and below ground swimming pools and man-made ponds.

#### **634\* Scaffolds, staging**

This source group classifies all types of scaffolds and staging used inside or outside buildings, stadiums, or amphitheaters.

*Includes:* improvised staging; self-supporting staging; staging supported by structure or other means; catwalks; suspended staging

*Excludes:* aerial lifts and scissor lifts (3467); forklifts (8621)

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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- 6340 Scaffolds—staging, unspecified**
- 6341 Scaffolds—improvised staging**
  
- 6342 Scaffolds—self-supporting staging**
  - Wood trestle staging* *Extension trestle staging*
  - Pole scaffolds* *Pole metal scaffolds*
  - Ladder jack scaffolds* *Pump jack scaffolds*
  - Frame scaffolds* *Tube and coupler scaffolds*
  - Mobile scaffolds*
  
- 6343 Scaffolds—staging supported by structure or other means**
  - Horse scaffolds*
  - Saw horse supported work platform*
  
- 6344 Scaffolds—suspended staging**
  - Boatswain's chair*
  - Catenary suspended scaffolds*
  - Suspension scaffolds*
  - Painters' suspended scaffolds*
  - Single-point adjustable scaffolds*
  - Double-point adjustable scaffolds*
  - Multiple-point adjustable scaffolds*
  - Needle beam scaffolds*
  - Interior hung suspended scaffolds*
  - Float ship suspended scaffolds*
  - Multi-level suspended scaffolds*
  
- 6345 Machine platforms**
- 6346 Catwalks**
- 6349 Scaffolds—staging, n.e.c.**
  
- 635\* Towers, poles**

This source group classifies all types of poles, towers, and telecommunication antennae.

  - 6350 Towers, poles, unspecified**
  - 6351 Telecommunications and cell phone towers**
  
  - 6352 Utility and telephone poles**
    - Excludes:* power lines (4415); telecommunications towers (6351)
  
  - 6353 Lamp posts, street lights**
  - 6354 Windmills, wind turbines**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### **6359 Towers, poles, n.e.c.**

*Includes:* fire and ranger towers; satellite dishes

*Excludes:* floor surfaces (66\*); power and telephone lines (4415); offshore oil platforms (6213); oil rigs and derricks (3244); other derricks (354)

### **636 Excavations, strip mines, and quarries (except confined space)**

### **639\* Other structures**

This source group classifies other structures not previously classified.

*Includes:* guardrails, road dividers; fire, water hydrants; posts, bollards; road signs; porches, balconies, decks, patios; strip mines; railroad tracks; mailboxes

*Excludes:* wells (613); confined spaces (61\*)

#### **6390 Other structures, unspecified**

#### **6391 Guardrails, road dividers**

#### **6392 Posts, bollards, moorings**

#### **6393 Hydrants**

#### **6394 Road signs**

#### **6395 Porches, balconies, decks, patios**

#### **6396 Railroad tracks**

#### **6397 Mailboxes**

#### **6399 Structures, n.e.c.**

*Concrete planters*

*Decorative fountains*

### **64\* Building systems**

This major group classifies the mechanical systems in a building, including the climate control and plumbing systems. This category will primarily be used as a secondary source to classify building system complications which produce injuries or illnesses. For example, illnesses produced by foreign particles in the air may be the result of a poor ventilation (climate control) system; illnesses produced by contaminated drinking water may be the result of a poor plumbing system.

*Includes:* climate control systems; plumbing systems; security systems

*Excludes:* light fixtures (224\*); plumbing fixtures (225\*) electric parts (441\*)

#### **640 Building systems, unspecified**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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**641 Climate control systems**

**642 Plumbing systems**

**643 Electrical systems**

**644 Security systems**

**649 Building systems, n.e.c.**

**65\* Other structural elements**

This group classifies the separate structural elements that are parts of buildings and other structures. Structural elements should be listed as the source of an injury regardless of whether they are independent or part of a building.

*Includes:* doors and door frames; fences, fence panels; gates; roofs; roof trusses; skylights; ceilings, walls; windows; elevator shafts

*Excludes:* unattached building materials (41\*); unattached bricks, blocks, structural stone (411\*); unattached structural metals (413\*); ladders (74\*); cupboard or cabinet doors (2212); railroad tracks (6396); floors (662\*); stairs and escalators (661\*) ramps; loading docks (6692)

**650 Other structural elements, unspecified**

**651\* Entrances and exits**

Codes 6511 and 6512 include both the door itself and the door frame. These codes are used regardless of whether they are powered or not. Vehicle doors are coded in 485\*.

**6510 Entrances and exits, unspecified**

**6511 Doors, except garage and vehicle**

*Includes:* door frames, except garage and vehicle

*Excludes:* garage doors and door frames (6512); vehicle doors (485\*)

**6512 Garage doors**

*Includes:* garage door frames

**6519 Entrances and exits, n.e.c.**

**652\* Fences, fence panels, gates**

**6520 Fences, fence panels, gates, unspecified**

**6521 Chain-link fences, panels**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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- 6522 Barbed-wire fences
- 6523 Wooden fences, panels
- 6524 Gates
- 6529 Fences, fence panels, gates, n.e.c.
  
- 653 Windows, openings
  
- 654\* Roofs
  - 6540 Roofs, unspecified
  - 6541 Skylights
  - 6542 Existing roof openings, other than skylights
  - 6543 Roof surfaces other than roof edge
  - 6544 Roof edges
  - 6549 Roofs, n.e.c.
  
- 655\* Trusses, girders, beams—structurally attached
  - 6550 Trusses, girders, beams—structurally attached, unspecified
  - 6551 Girders, beams, structural steel
  - 6552 Roof trusses, joists
  
- 656\* Ceilings, walls
  - 6560 Ceilings, walls, unspecified
  - 6561 Ceilings
  - 6562 Walls
  - 6569 Ceilings, walls, n.e.c.
  
- 657 Handrails, banisters
  - Excludes:* railroad tracks (6396)
  
- 658 Elevator shafts
  
- 659 Structural elements, n.e.c.
  - Prefabricated building materials*
  
- 66\* Floors, walkways, ground surfaces

This major group classifies walking, working, floor, and road surfaces. These surfaces can be temporary or permanent, indoors or outdoors, above or below ground, etc. If the surface identified as the source of an injury is the **general floor surface** in a building or on the ground, **regardless of whether it is a permanent element** of a building, then the appropriate surface in this major group should be selected as the source.

*Includes:* escalators; floors; ground; sidewalks, paths, outdoor walkways; stairs, steps; streets, roads, driveways; ditches, channels, trenches,

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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excavations; piers, wharfs; ramps, runways, loading docks; moving walkways; parking lots; curbs, berms, culverts, nonconfined ditches, embankments; airport runways

### **660 Floors, walkways, ground surfaces, unspecified**

#### **661\* Stairs, steps, escalators**

This source group classifies any stairs or steps inside or outside (except ladders 74\*), when used as a surface on which a person is supported. This group also classifies escalators mainly used as mechanical steps for the transportation of people from one level to another.

*Includes:* indoor stairs, steps; outdoor stairs, steps; uncompleted stairs, such as stringers and risers; escalators

*Excludes:* ladders (74\*), moving walkways (6693), step stools (7422)

#### **6610 Stairs, steps, unspecified**

#### **6611 Stairs, steps—indoors**

#### **6612 Stairs, steps—outdoors**

#### **6613 Escalators**

#### **662\* Floors**

This source group includes the floor surface of any structure, vehicle, or machine, and excludes outdoor ground surfaces (663\*), below ground surfaces (611, 612\*), piers, wharfs (6691), ramps, runways, loading docks (6692), moving walkways (6693) and roofs (654\*). Vehicle floors should not be coded as the source for transportation incidents.

Note that roofs, even when used as working surfaces, are classified in source group 654 (Roof).

*Includes:* building floor (including basement) surfaces; elevator floor surfaces; mine floor surfaces; scaffold, staging, or temporary work platforms, floor surfaces; vehicle floor surfaces

*Excludes:* outdoor ground surfaces (663\*); below ground surfaces such as ditches and trenches (611); piers, wharfs (6691); ramps, runways, loading docks (6692); moving walkways (6693); roofs (654\*); stairs, steps, escalators (661\*)

#### **6620 Floor, unspecified**

#### **6621 Existing floor opening**

\*-Asterisks denote a summary level code not assigned to individual cases.



## SOURCE

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### **6622 Floor irregularity**

*Includes:* depression, bump, hole

*Excludes:* grates and drains in floor surface (6694), object or substance on floor causing slipping or tripping hazard

### **6629 Floor, n.e.c.**

*Drilling rig floor*

*Floors without openings, or irregularities*

### **663\* Ground**

This source group classifies any natural surface in the outdoors on which an employee is supported other than sidewalks, paths, and walkways.

*Includes:* outdoor ground surfaces; athletic fields

*Excludes:* other dirt, earth (554); sidewalks, paths, walkways, trails (664\*); streets, roads, driveways (665\*); ditches, channels, trenches, excavations—confined space (611); parking lots (666\*); berms, embankments, culverts, nonconfined ditches (667\*); indoor surface

### **6630 Ground, unspecified**

### **6631 Ground irregularity**

*Includes:* depression, bump, hole

### **6639 Ground, n.e.c.**

### **664\* Sidewalks, paths, outdoor walkways**

This source group consists of any outdoor sidewalk, path, or walkway when used as a surface on which a person is supported.

*Includes:* sidewalks, paths, outdoor walkways, jogging trails, bicycle paths, hiking trails

*Excludes:* ground (663\*); streets, roads, driveways (665\*); parking lots (666\*); indoor surfaces

### **6640 Sidewalks, paths, outdoor walkways, unspecified**

### **6641 Sidewalk, path, or outdoor walkway irregularity**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Includes:* depression, bump, hole

*Excludes:* curbs (6671), objects or substances causing slipping or tripping hazards

**6642 Sidewalk, path, outdoor walkway—paved**

**6643 Sidewalk, path, outdoor walkway—unpaved**

**665\* Streets, roads, driveways**

This group includes any part of a public or private street or road that is used as a surface that supports people or vehicles.

*Includes:* public and private streets; roads; driveways

*Excludes:* athletic fields (663\*); parking lots (666\*); sidewalks (6641)

**6650 Street, road, driveway, unspecified**

**6651 Street, road, or driveway irregularity**

*Includes:* depression, bump, or pothole in street, road, or driveway

*Excludes:* curbs, traffic calming bumps, embankments (667\*)

**6652 Street, road, driveway—paved**

**6653 Street, road, driveway—unpaved**

**666\* Parking lots**

This source group classifies parking lot surfaces of any composition including gravel, dirt, concrete, etc.

*Includes:* parking lot surfaces; parking garage surfaces

*Excludes:* streets, roads, driveways (665\*)

**6660 Parking lot, unspecified**

**6661 Parking lot irregularity**

**6662 Parking lot—paved**

**6663 Parking lot—unpaved**

**667\* Curbs, traffic calming bumps, embankments**

**6670 Curbs, traffic calming bumps, embankments, unspecified**

**6671 Curbs**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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- 6672 Speed bumps, speed humps**
- 6673 Concrete parking blocks and barriers**
- 6674 Berms**

- 6675 Embankments**

*Includes:* snow, dirt, gravel

- 6676 Culverts, nonconfined ditches**

*Excludes:* ditches, channels, trenches, excavations—confined (611)

- 6679 Curbs, traffic calming bumps, embankments, n.e.c.**

- 669\* Other floors, walkways, ground surfaces**

This source group classifies other common surfaces including piers and wharfs; ramps, runways, and loading docks; and moving walkways.

*Includes:* piers, wharfs; ramps, loading docks, dock plates; moving walkways; grates and drains in floor surface; airport runways

*Excludes:* floors (662\*); ground (663\*); sidewalks, paths, outdoor walkways (664\*); stairs, steps (661\*); streets, roads, driveways (665\*); below ground surfaces (611, 612\*); parking lots (666\*)

- 6690 Other floors, walkways, ground surfaces, unspecified**

- 6691 Piers, wharfs**

- 6692 Ramps, loading docks, dock plates**

- 6693 Moving walkways**

- 6694 Grates and drains in floor surface**

- 6695 Airport runways**

- 6699 Floors, walkways, ground surfaces, n.e.c.**

- 67\* Geographical structures**

This category includes naturally-occurring geographic elements. Man-made structures that consist mainly of earth or water, such as man-made lakes, are also included in this category. Swimming pools and man-made ponds, such as farm and garden ponds, are coded in 633 Pools.

- 670 Geographical structures, unspecified**

- 671\* Raised natural structures, hills, mountains**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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- 6710** Raised natural structures, hills, mountains, unspecified
  - 6711** Hills
  - 6712** Mountains
  - 6719** Raised natural structures, hills, mountains, n.e.c.
  
- 672\*** Recessed natural structures, valleys
  - 6720** Recessed natural structures, valleys, unspecified
  - 6721** Valley
  - 6722** Gorge, crevice
  - 6729** Recessed natural structures, valleys n.e.c.
  
- 673\*** Water bodies—natural
  - 6730** Water bodies—natural, unspecified
  - 6731** Natural ponds
  - 6732** Lakes
  - 6733** Rivers, streams
  - 6734** Oceans
  - 6739** Water bodies—natural, n.e.c.
  
- 679** Geographical structures, n.e.c.
  
- 69** Structures and surfaces, n.e.c.

This major group classifies structures and surfaces not elsewhere classified.

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\*-Asterisks denote a summary level code not assigned to individual cases.

**7\* TOOLS, INSTRUMENTS, AND EQUIPMENT**

This division classifies handtools (nonpowered, powered, power not determined), ladders (fixed, movable), equipment (photographic, protective, recreation, athletic), and instruments (medical, surgical). Other tools and instruments such as clocks, eating and cooking utensils, firearms, other health care and orthopedic equipment, musical instruments, sewing notions, wheelchairs, and writing supplies are also included in this division.

If a part that produces an injury is **attached** to a tool (e.g., a saw blade or drill bit) then the entire tool should be listed as the source, unless the injury was inflicted by the electrical cord.

If a part is known to be **unattached and independent** of a tool—or if it is probable that a tool is not involved in the injury—then that specific part should be listed as the source. Unattached drill bits and saw blades are classified in source group 443 (Tool parts, accessories).

Certain handtools are manufactured in both powered and nonpowered varieties. If it cannot be determined whether a handtool is powered or nonpowered, it should be classified in major group 73 (Handtools—power not determined).

*Includes:* nonpowered handtools; powered handtools; handtools—power not determined; ladders; medical and surgical instruments and equipment; photographic equipment; protective equipment (except clothing); recreation and athletic equipment; clocks; cooking and eating utensils (except knives); firearms and other weapons; musical instruments; sewing notions, n.e.c.; writing, drawing, and art supplies

*Excludes:* containers (2\*); furniture and fixtures (2\*); tool chests (2212); machinery (3\*); mechanical jacks (347); parts and materials (4\*); hoisting accessories (43\*); machine, tool, and electric parts (44\*); tool parts and accessories (443\*); tarps (472)

**70 Tools, instruments, and equipment, unspecified**

**71\* Handtools—nonpowered**

This major group classifies all nonpowered handtools which are handheld and operated. Handtools in this major group are not powered by electricity, fuel (gasoline, coal), air, steam, water, or gunpowder. Nonpowered handtools are classified according to their common functions at the source group level (e.g., boring, cutting, digging, gripping, etc.). Unattached drill bits and saw blades are classified in source group 443 (Tool parts, accessories). Certain handtools are manufactured in both powered and nonpowered varieties. If it cannot be

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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determined whether a handtool is powered or nonpowered, it should be classified in major group 73 (Handtools—power not determined).

*Includes:* handtools; cutting handtools; digging handtools; gripping handtools; measuring handtools; striking and nailing handtools; surfacing handtools; turning handtools; cleaning handtools; crowbars; pitchforks; rakes; stapling tools

*Excludes:* workbenches, worktables (2232); hoisting accessories (43\*); metal fasteners such as nails, screws, nuts, and bolts (421); unattached drill bits and saw blades (443\*); powered handtools (72\*); handtools—power undetermined (73\*); carts and wheelbarrows (87\*)

### **710 Handtools—nonpowered, unspecified**

#### **711\* Boring handtools—nonpowered**

This source group classifies nonpowered handtools which are commonly used to make holes using an attached revolving bit.

*Includes:* augers; braces; drills

*Excludes:* unattached drill bits (4431); boring and drilling machinery (352); upright drill presses (3521); powered boring handtools (721)

#### **7110 Boring handtools—nonpowered, unspecified**

##### **7111 Augers, plumbing snakes—nonpowered**

<i>Augers</i>	<i>Corkscrews</i>
<i>Bores</i>	<i>Counterbores</i>
<i>Breast augers</i>	<i>Wimbles</i>

##### **7112 Braces—nonpowered**

<i>Bit braces</i>	<i>Braces</i>
<i>Brace and bits</i>	<i>Joist braces</i>

##### **7113 Drills—nonpowered**

<i>Breast drills</i>	<i>Gimlets</i>
<i>Hand drills, nonpowered</i>	<i>Pin vises</i>
<i>Push drills</i>	<i>Reamers</i>
<i>Ratchet drills</i>	

##### **7119 Boring handtools—nonpowered, n.e.c.**

<i>Awls</i>	<i>Bradawls</i>
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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Bodkins (make holes in cloth)*

### **712\* Cutting handtools—nonpowered**

This source group classifies sharp-edged handtools which are commonly used to penetrate and separate objects, fabrics, etc.

*Includes:* axes, hatchets; bolt cutters; chisels; knives; saws; scissors, snips, shears

*Excludes:* sawing machinery (357\*); unattached saw blades (4432); spokeshaves, shavehooks (7162); putty knives (7166); powered cutting handtools (722\*); scalpels and surgical knives (7512); pick axes (7132)

### **7120 Cutting handtools—nonpowered, unspecified**

#### **7121 Axes, hatchets**

<i>Adzes</i>	<i>Froes</i>
<i>Axes, except pick axes</i>	<i>Grub axes</i>
<i>Bark spuds</i>	<i>Halberds</i>
<i>Battle axes</i>	<i>Hatchets</i>
<i>Broad axes</i>	<i>Poleaxes</i>
<i>Broad hatchets</i>	<i>Tomahawks</i>
<i>Celts, stone axe</i>	

#### **7122 Bolt cutters—nonpowered**

<i>Bolt cutters</i>	<i>Pliers—cutting</i>
<i>Chain cutters</i>	<i>Wire cutters</i>
<i>Lock cutters</i>	

#### **7123 Chisels—nonpowered**

<i>Bench chisels</i>	<i>Mortise chisels</i>
<i>Cold chisels</i>	<i>Paring chisels</i>
<i>Construction chisels</i>	<i>Socket chisels</i>
<i>Corner chisels</i>	<i>Steel chisels</i>
<i>Deep-mortise chisels</i>	<i>Wood chisels</i>
<i>Dog leg chisels</i>	<i>Socket slicks</i>
<i>Dovetail chisels</i>	<i>Slicks</i>

#### **7124 Box cutters and razor knives**

<i>Razor blades</i>	<i>Drywall knives</i>
<i>Utility knives</i>	

#### **7125 Knives, unspecified or n.e.c.**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Includes:* bayonets, mat cutters, palette knives, bushwhackers, pocket knives, butcher knives, potato peelers, carving knives, pushknives, cleavers, scrapers (used with lathes), daggers, scythes, detail knives, shaping knives, dowel makers (used with lathes), shavers, sickles, drawknives, spears, steak knives, gouges, stilettos, groovers, switchblades, hacks, swords, hunting knives, table knives, inshavers, whittling knives, knife blades, veiners, lances, woodcarving knives, linoleum knives, woodturning tools (used with lathes), machetes, marking knives, unspecified knives

*Excludes:* putty knives (7166), box cutters and razor knives (7124), drywall knives (7124), utility knives (7124), surgical knives (7512)

### **7126 Saws—nonpowered**

<i>Backsaws</i>	<i>Hand saws</i>
<i>Bow saws</i>	<i>Ryoba saws</i>
<i>Coping saws</i>	<i>Scroll saws</i>
<i>Cross-cut saws</i>	<i>Turning saws</i>
<i>Dozuki saws</i>	<i>Veneer saws</i>
<i>Fret saws</i>	<i>Hack saws</i>

### **7127 Scissors, snips, shears—nonpowered**

<i>Grass clippers</i>	<i>Hedge clipper shears</i>
<i>Hand scissors</i>	<i>Pruning shears</i>
<i>Barber's scissors</i>	<i>Tin snips</i>
<i>School scissors</i>	<i>Hedge trimmers</i>
<i>Tailor's scissors</i>	

### **7129 Cutting handtools—nonpowered, n.e.c.**

<i>Can openers</i>	<i>Hand-operated paper cutters</i>
<i>Chasers (cut screw threads)</i>	<i>Paper-hole punchers</i>
<i>Glass cutters</i>	<i>Wedges</i>
<i>Letter openers</i>	
<i>Nail clippers</i>	

### **713\* Digging handtools—nonpowered**

This source group classifies nonpowered handtools which are commonly used for turning up, loosening, or removing earth.

*Includes:* hoes; picks; shovels; trowels; post hole diggers

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\*-Asterisks denote a summary level code not assigned to individual cases.



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*Excludes:* excavating machinery (321); pitchforks (7193); rakes (7194)

### **7130 Digging handtools—nonpowered, unspecified**

#### **7131 Hoes**

<i>Garden hoes</i>	<i>Masons hoes</i>
<i>Grub hoes</i>	<i>Scuffle hoes</i>
<i>Lawn edgers—nonpowered</i>	<i>Sod cutters</i>

#### **7132 Picks**

*Axe picks*  
*Ice picks*  
*Mattocks (combination adze and axe)*

#### **7133 Shovels**

<i>Snow shovels</i>	<i>Spades</i>
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#### **7134 Trowels**

<i>Hand scoops</i>	<i>Garden trowels</i>
<i>Spuds (combination trowel and chisel)</i>	

#### **7139 Digging handtools—nonpowered, n.e.c.**

*Dibbles (make seed holes in garden)*  
*Post hole diggers*

### **714\* Gripping handtools—nonpowered**

This source group classifies nonpowered handtools which are commonly used for clutching, squeezing, or gripping objects.

*Includes:* pliers, tongs; vises, clamps; gear pullers

*Excludes:* clamps used as fasteners (4211); hooks (bush, grass, baling, and husking), grappling irons and hooks, anchors, cant hooks (432); peavies (7199); medical implements (759)

### **7140 Gripping handtools—nonpowered, unspecified**

#### **7141 Pliers, tongs**

<i>Forceps—excluding medical</i>	<i>Tweezers</i>
<i>Nippers</i>	<i>Ice tongs</i>
<i>Pincers</i>	<i>Oyster tongs</i>
<i>Pliers</i>	<i>Vise grips</i>

#### **7142 Vises, clamps**

<i>Bench dogs</i>	<i>Spreaders clamps</i>
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\*-Asterisks denote a summary level code not assigned to individual cases.

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<i>Bench screws</i>	<i>Spring clamps</i>
<i>Band clamps</i>	<i>Toggle clamps</i>
<i>Bar clamps</i>	<i>Handscrews</i>
<i>Cam clamps</i>	<i>Bench vises</i>
<i>Edging clamps</i>	<i>Front vises</i>
<i>Hand clamps</i>	<i>Miter vises</i>
<i>Pipe clamps</i>	

### **7149 Gripping handtools—nonpowered, n.e.c.**

<i>Nutcrackers</i>	<i>Wheel, gear, bearing pullers</i>
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### **715\* Striking and nailing handtools—nonpowered**

This source group classifies nonpowered handtools which are commonly used for delivering blows or strokes, or for nailing.

*Includes:* hammers; mallets; punches, counterpunches, countersinks; sledges

*Excludes:* nonpowered staplers (7195); powered striking and nailing handtools (723\*); powered nail guns (7235)

### **7150 Striking and nailing handtools—nonpowered, unspecified**

#### **7151 Hammers, except sledge—nonpowered**

<i>Ball-peen hammers</i>	<i>Meat hammers</i>
<i>Cabinetmaker hammers</i>	<i>Tack hammers</i>
<i>Claw hammers</i>	<i>Mauls</i>
<i>Framer hammers</i>	

#### **7152 Mallets**

<i>Gavels</i>	<i>Printer's mallets</i>
<i>Beechwood mallets</i>	<i>Rawhide mallets</i>
<i>Carver's mallets</i>	<i>Rubber mallets</i>
<i>Cocobolo mallets</i>	

#### **7153 Punches, counterpunches, countersinks—nonpowered**

<i>Counterpunches</i>	<i>Belt punches</i>
<i>Countersinks</i>	<i>Center punches</i>
<i>Punches</i>	

#### **7154 Sledges, sledgehammers**

#### **7155 Toe kickers, knee kickers**

*Carpet kickers*

\*-Asterisks denote a summary level code not assigned to individual cases.

**7159 Striking and nailing handtools—nonpowered, n.e.c.**

*Includes:* beetles, staffs, staves, tampers, hand-threshing flails

*Excludes:* law enforcement batons, night sticks, clubs (7831)

**716\* Surfacing handtools—nonpowered**

This source group classifies nonpowered handtools which are commonly used to plane, shape, or make smooth surfaces.

*Includes:* files (surfacing handtools); planes; sanders; sharpening stones and wheels; cement trowels

*Excludes:* planing machinery (352\*); grinding, polishing machinery (354\*); drawknives, gouges and groovers (woodcarving chisels), inshavers, veiners, and pushknives (7125)

**7160 Surfacing handtools—nonpowered, unspecified**

**7161 Files—surfacing handtool**

*Emery boards*

*Bastard files*

*Cabinet files*

*Detail files*

*Diamond files*

*Nail files*

*Needle files*

*Round files*

*Wood files*

*Cabinet rasps*

*Keyway rasps*

*Needle rasps*

*Round rasps*

*Sculptor's rasps*

*Rifflers*

**7162 Planes—surfacing handtool**

*Cornering tools*

*Bench planes*

*Block planes*

*Bullnose planes*

*Butt mortise planes*

*Combination planes*

*Compass planes*

*Fore planes*

*Hollowing planes*

*Jack planes*

*Jointer planes*

*Rabbet planes*

*Router planes*

*Scraping planes*

*Scrub planes*

*Smoothing planes*

*Trimming planes*

*Cabinet scrapers*

*Shavehooks*

*Spokeshaves*

**7163 Sanders—nonpowered**

*Abrasive pads*

*Hand sanders*

*Sanding grips*

*Sanding sticks*

*Sandpaper*

\*-Asterisks denote a summary level code not assigned to individual cases.

**7164 Sharpening stones and wheels—nonpowered**

<i>Corundum stone</i>	<i>Pumice stone</i>
<i>Emery wheels</i>	<i>Slipstones</i>
<i>Honing stones</i>	<i>Water stones</i>
<i>Multi-stones</i>	<i>Whetstone</i>
<i>Oilstone</i>	

**7165 Scrapers—nonpowered**

*Includes:* paint scrapers

**7166 Putty knives**

**7169 Surfacing handtools—nonpowered, n.e.c.**

*Includes:* bench strops, scouring pads, sharpening straps

*Excludes:* putty knives (7166)

**717\* Turning handtools—nonpowered**

This source group classifies nonpowered handtools which are commonly used to revolve or rotate screws, nuts, bolts, and pipes. Included here are screwdrivers, ratchet drivers, and wrenches.

*Includes:* screwdrivers; ratchet drivers; wrenches

*Excludes:* lathes (355\*); powered turning handtools (725\*)

**7170 Turning handtools—nonpowered, unspecified**

**7171 Screwdrivers—nonpowered**

*Includes:* Phillips head screwdriver, straight tip screwdriver

*Excludes:* ratchet drivers (7172)

**7172 Ratchet drivers—nonpowered**

*Ratchet drivers*

**7173 Wrenches—nonpowered**

<i>Spanners</i>	<i>Open-end wrenches</i>
<i>Adjustable wrenches</i>	<i>Pipe wrenches</i>
<i>Allen wrenches</i>	<i>Socket wrenches</i>
<i>Box wrenches</i>	<i>Spark-plug wrenches</i>
<i>Monkey wrenches</i>	<i>Tuning wrenches</i>

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\*-Asterisks denote a summary level code not assigned to individual cases.

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### **7179 Turning handtools—nonpowered, n.e.c.**

#### **719\* Other handtools—nonpowered**

This source group classifies other nonpowered handtools not previously classified.

*Includes:* brooms, mops, and other cleaning tools; crowbars; pitchforks, spading forks; rakes; nonpowered stapling tools

*Excludes:* workbenches, worktables (2232); hoisting accessories (43\*); metal fasteners such as nails, screws, nuts, and bolts (421\*); unattached drill bits and saw blades (443\*); powered handtools (72\*); handtools—power undetermined (73\*); carts and wheelbarrows (87\*)

#### **7190 Other handtools—nonpowered, unspecified**

#### **7191 Brooms, mops, and other cleaning tools**

<i>Hand brooms</i>	<i>Leaf skimmers</i>
<i>Push brooms</i>	<i>Mops</i>
<i>Straw brooms</i>	<i>Rags</i>
<i>Cleaning brushes</i>	<i>Ram rods (cleaning rods)</i>
<i>Steel brushes</i>	<i>Sponges</i>
<i>Feather dusters</i>	<i>Plungers</i>

#### **7192 Crowbars**

<i>Nail pullers</i>	<i>Prying bars</i>
<i>Pinch bars (large crowbars)</i>	<i>Wrecking bars</i>

#### **7193 Pitchforks, spading forks**

<i>Garden forks</i>	<i>Manure forks</i>
<i>Hay forks</i>	

#### **7194 Rakes**

<i>Garden rakes</i>	<i>Swimming pool rakes</i>
<i>Leaf rakes</i>	

#### **7195 Stapling tools—nonpowered**

<i>Staplers—nonpowered</i>	<i>Staple guns—nonpowered</i>
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#### **7196 Tape guns**

#### **7199 Handtools—nonpowered, n.e.c.**

<i>Caulking guns</i>	<i>Paint brushes</i>
<i>Grease guns</i>	<i>Paint sticks</i>

\*-Asterisks denote a summary level code not assigned to individual cases.

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*Hawks (mortar holders)*

*Jigs*

*Keys*

*Miter boxes*

*Padlocks*

*Log handling peavies*

*Paint rollers*

*Safety guides*

*Staple removers*

*Hand-held and push fertilizer  
spreaders*

### 72\* **Handtools—powered**

This major group classifies all of the tools which are hand-held and require a source of energy to operate (i.e., electricity, gasoline, diesel, coal, air, steam, water, or gunpowder).

Powered handtools are grouped according to their common functions. If a drill bit, saw blade, or other tool part that produces an injury is **attached** to a handtool then the entire handtool should be listed as the source, unless the injury was inflicted by an electrical cord. Unattached drill bits and saw blades are classified in source group 443 (Tool parts, accessories). If a part is known to be **unattached and independent** of a handtool—or if it is probable that a handtool is not involved in the injury—then that specific part should be listed as the source. Handtool parts are classified in source group 443 (Tool parts, accessories). Certain handtools are manufactured in both powered and nonpowered varieties. If it cannot be determined whether a handtool is powered or nonpowered, it should be classified in major group 73 (Handtools—power not determined).

*Includes:* boring handtools; cutting handtools; striking and nailing handtools; surfacing handtools; turning handtools; welding and heating handtools; nail guns; powered scrubbers; handheld paint sprayers; electric or pneumatic stapling tools

*Excludes:* machinery (3\*); agricultural and garden machinery (31\*); power lawn mowers (3121); hair and hand dryers (3335); vacuum cleaners (3336); hydraulic, pneumatic jacks (347); metalworking machinery, woodworking machinery (35\*); stationary drills (3521); stationary saws (357\*); unattached drill bits, saw blades (443\*); nonpowered handtools (71\*)

### 720 **Handtools—powered, unspecified**

#### 721\* **Boring handtools—powered**

This source group classifies powered hand-held boring tools such as portable electric drills, compressed-air drills, braces, and augers. Unattached drill bits are classified in 4431 (Drill bits—unattached).

*Includes:* powered hand augers, braces, and drills

\*-Asterisks denote a summary level code not assigned to individual cases.

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*Excludes:* drilling machines and augers used in construction and mining (3241); boring, drilling, and milling machines used in manufacturing (352\*); unattached drill bits (4431); auger conveyors (3427)

**7210 Boring handtools—powered, unspecified**

**7211 Augers, plumbing snakes—powered**

**7212 Braces—powered**

**7213 Drills—powered**

*Powered countersinks*

*Cordless drills*

*Hand drills*

*Pneumatic drills*

*Variable speed drills*

**7214 Routers and molders—powered**

**7219 Boring handtools—powered, n.e.c**

**722\* Cutting handtools—powered**

This source group classifies powered hand-held cutting tools such as power chisels, power knives, portable power saws, and electric cutters, shears, and razors. Unattached saw blades are classified in 4432 (Saw blades—unattached).

*Includes:* chainsaws; powered chisels; powered knives; powered saws (except chainsaws); handheld powered lawn cutters, weed trimmers

*Excludes:* stationary sawing machinery (357\*); laser cutting machinery (3592); unattached saw blades (4432)

**7220 Cutting handtools—powered, unspecified**

**7221 Chainsaws—powered**

**7222 Chisels—powered**

**7223 Knives—powered**

**7224 Saws—powered, except chainsaws**

*Circular saws*

*Jig saws*

**7225 Lawn edgers, clippers, trimmers—powered**

*Weed trimmers*

*Hedge clippers*

**7229 Cutting handtools—powered, n.e.c.**

*Powered shears*

*Electric razors*

\*-Asterisks denote a summary level code not assigned to individual cases.

**723\* Striking and nailing handtools—powered**

This source group classifies powered handtools which are commonly used for delivering blows or strokes, or for nailing.

*Includes:* powered hammers; jackhammers; powered punches; powered riveters; nail guns

*Excludes:* pile driving, tamping machinery—construction (3293); nonpowered striking and nailing handtools (715\*); striking and nailing handtools with undetermined power (733\*)

**7230 Striking and nailing handtools—powered, unspecified****7231 Hammers—powered**

*Air hammers*

*Electric hammers*

*Electric chipping hammers*

*Power hammers*

**7232 Jackhammers—powered**

*Pile driving hammers*

*Jackhammers*

*Steam hammers*

**7233 Punches—powered****7234 Riveters—powered**

*Electric riveting hammers*

*Pneumatic riveters*

*Electric riveters*

*Powered riveters*

**7235 Nail guns—powered**

*Air nail guns*

*Point drivers*

*Electric nail guns*

*Gunpowder activated nail guns*

**7236 Stapling tools—electric or pneumatic**

*Electric staple guns*

*Pneumatic staple guns*

*Gunpowder activated staple guns*

**7239 Striking and nailing handtools—powered, n.e.c.****724\* Surfacing handtools—powered**

This source group classifies powered hand-held surfacing tools such as buffers, grinders, and sanders. Unattached grinding wheels are classified in 7164 (Sharpening stones and wheels—nonpowered).

*Includes:* powered buffers, polishers, and waxers; powered hand grinders; powered sanders; sandblasters

\*-Asterisks denote a summary level code not assigned to individual cases.



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*Excludes:* grinding and polishing machinery (354\*); nonpowered surfacing handtools (716\*); unattached grinding wheels (7164)

**7240 Surfacing handtools—powered, unspecified**

**7241 Buffers, polishers, waxers—powered**

*Hand buffing machines*                      *Powered polishers*  
*Floor buffers*                                      *Polishing heads*

**7242 Hand grinders—powered**

*Bench grinders*                                      *Waterstone grinders*  
*Electric grinders*                                      *Wet stone grinders*  
*Pneumatic grinders*                                      *Wet/dry grinders*  
*Snagging grinders*

**7243 Sanders—powered**

*Sand belts*    *Disc sanders*  
*Belt sanders*    *Finishing sanders*

**7244 Sandblasters—powered**

**7249 Surfacing handtools—powered, n.e.c.**

*Rotary rasps*

**725\* Turning handtools—powered**

This source group classifies powered hand-held turning tools which are commonly used to revolve or rotate screws, nuts, bolts, and pipes. All types of powered hand-held screwdrivers and wrenches are included here.

*Includes:* powered bolt setters; powered impact wrenches; powered screwdrivers; air-powered bolt setters

*Excludes:* lathes, turning machines (355\*)

**7250 Turning handtools—powered, unspecified**

**7251 Bolt setters—powered**

*Air-powered bolt setters*

**7252 Impact wrenches—powered**

*Air wrenches*    *Impact wrenches*

**7253 Screwdrivers—powered**

**7254 Tongs—powered**

**7259 Turning handtools—powered, n.e.c.**

\*-Asterisks denote a summary level code not assigned to individual cases.

**726\* Welding and heating handtools—powered**

This source group classifies powered hand-held welding tools which are used to solder, weld, or burn. Included here are soldering guns, welding torches, electric burn-in knives, and woodburning pens.

*Includes:* welding, cutting, and blow torches; soldering irons; heat guns

*Excludes:* welding and soldering fumes (147); irons (3323); laser cutting machinery (3592); robotic welding machinery (3594)

**7260 Welding and heating handtools—powered, unspecified****7261 Welding, cutting, and blow torches**

*Cutting torches*

*Propane torches*

*Welding torches*

*Mapp torches*

*Welding guns*

**7262 Soldering irons—powered**

*Burning systems*

*Soldering tips*

*Electric burn-in knives*

*Soldering tiptets*

*Soldering coppers*

*Soldering irons*

*Soldering tools*

*Woodburning sets*

*Soldering guns*

*Woodburning pens*

**7263 Heat guns**

*Glue guns*

**7269 Welding and heating handtools—powered, n.e.c.****729\* Other handtools—powered**

This source group classifies powered handtools which are not elsewhere classified such as power punches, scrubbers, paint sprayers, and flashlights.

*Includes:* powered scrubbers; handheld paint sprayers; power washers; laser pointers; powered spreaders; powered push-pull rams; flashlights

*Excludes:* machinery (3\*); agricultural and garden machinery (31\*); power lawn mowers (3121); hair and hand dryers (3335); vacuum cleaners (3336); hydraulic, pneumatic jacks (347); metalworking machinery, woodworking machinery (35\*);

\*-Asterisks denote a summary level code not assigned to individual cases.

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stationary drills (3521); stationary saws (357\*); painting machinery (3796); unattached drill bits, saw blades (443\*); nonpowered handtools (71\*); nail guns (7235); stapling tools (7236)

**7290 Other handtools—powered, unspecified**

**7291 Scrubbers—powered**

**7292 Sprayers, air guns—paint**  
*Paint sprayers*

**7293 Power washers**  
*Pressure washers*

**7294 Laser pointers**

**7295 Spreaders—powered**

**7296 Push-pull rams—powered**

**7299 Handtools—powered, n.e.c.**  
*Flashlights* *Plate joiners*

**73\* Handtools—power not determined**

This source group should only be used to classify those handtools which are manufactured in both powered and nonpowered varieties. If it cannot be determined whether these handtools are powered or nonpowered, they should be classified in this major group. For specific definitions of the source group categories, refer to the corresponding source groups under nonpowered (71\*) or powered (72\*) handtools.

*Includes:* boring, cutting, striking, nailing, surfacing, turning, stapling handtools, power not determined

*Excludes:* handtools determined to be nonpowered (71\*); handtools determined to be powered (72\*)

**730 Handtools—power not determined, unspecified**

**731\* Boring handtools—power not determined**

For a specific definition of this source group, refer to the corresponding source group under nonpowered (71\*) or powered (72\*) handtools.

**7310 Boring handtools—power not determined, unspecified**

\*-Asterisks denote a summary level code not assigned to individual cases.

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**7311 Augers, plumbing snakes—power not determined**

**7312 Braces—power not determined**

**7313 Drills—power not determined**

**7319 Boring handtools—power not determined, n.e.c.**

**732\* Cutting handtools—power not determined**

For a specific definition of this source group, refer to the corresponding source group under nonpowered (71\*) or powered (72\*) handtools.

**7320 Cutting handtools—power not determined, unspecified**

**7321 Chisels—power not determined**

**7322 Knives—power not determined**

**7323 Saws—power not determined**

**7329 Cutting handtools—power not determined, n.e.c.**

**733\* Striking and nailing handtools—power not determined**

For a specific definition of this source group, refer to the corresponding source group under nonpowered (71\*) or powered (72\*) handtools.

**7330 Striking and nailing handtools—power not determined, unspecified**

**7331 Hammers—power not determined**

**7332 Punches—power not determined**

**7339 Striking and nailing handtools—power not determined, n.e.c.**

**734\* Surfacing handtools—power not determined**

For a specific definition of this source group, refer to the corresponding source group under nonpowered (71\*) or powered (72\*) handtools.

**7340 Surfacing handtools—power not determined, unspecified**

**7341 Sanders—power not determined**

**7349 Surfacing handtools—power not determined, n.e.c.**

**735\* Turning handtools—power not determined**

For a specific definition of this source group, refer to the corresponding source group under nonpowered (71\*) or powered (72\*) handtools.

**7350 Turning handtools—power not determined, unspecified**

**7351 Screwdrivers—power not determined**

**7352 Wrenches—power not determined**

**7359 Turning handtools—power not determined, n.e.c.**

**736\* Measuring handtools**

\*-Asterisks denote a summary level code not assigned to individual cases.

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This source group classifies—powered, nonpowered, or power not determined—which are commonly used to ascertain measurements. Divider calipers are classified in 7362.

*Includes:* calipers, micrometers; dividers; gauges; levels; plumb bobs; rulers, tape measures; squares; scales; thermometers

*Excludes:* diagnostic machinery (393); measuring cups (2142); measuring spoons (792); clocks (791); compasses and protractors (7624)

### **7360 Measuring handtools, unspecified**

#### **7361 Calipers, micrometers**

*Dial calipers*

*Vernier calipers*

*Inside calipers*

*Yankee calipers*

*Micrometer calipers*

*Micrometers*

*Outside calipers*

#### **7362 Dividers**

*Divider calipers*

*Trammel heads*

#### **7363 Gauges**

*Center finders*

*Multi gauges*

*Dovetail gauges*

*Profile gauges*

*Marking gauges*

*Scoring gauges*

#### **7364 Levels**

*Levels*

*Spirit levels*

#### **7365 Plumb bobs**

*Plumbs*

*Plumb bobs*

#### **7366 Rulers, tape measures**

*Angle finders*

*Shop rules*

*Bench rules*

*Steel rules*

*Centering rules*

*Size sticks*

*Foot rules*

*Straight edges*

*Metersticks*

*Tape lines*

*Parallel rules*

*Tape measures*

*Pocket rules*

*Triangles*

*Rulers*

*Yardsticks*

#### **7367 Squares**

*Bevels*

*Framing squares*

*Combination builders tools*

*Speed squares*

\*-Asterisks denote a summary level code not assigned to individual cases.

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*Squares*  
*Combination squares*  
*Engineers squares*

*T squares*  
*Try squares*

**7368 Scales**

*Bathroom scales*

*Kitchen scales*

**7369 Measuring handtools, n.e.c.**

*Balances*  
*Pantographs*  
*Thermometers*

*Sextants*  
*Magnetic compasses*

**739\* Other handtools—power not determined**

For a specific definition of this source group, refer to the corresponding source group under nonpowered (71\*) or powered (72\*) handtools.

**7391 Staplers—power not determined**

**7399 Handtools—power not determined, n.e.c.**

**74\* Ladders**

This major group classifies fixed and movable ladders of any construction: wooden, steel, aluminum, plastic, etc. Fixed ladders are immovable, permanent fixtures. Movable ladders are portable, foldable, or extendable. Generally, the source for falls involving ladders on trucks and or fixed ladders on structures will be coded according to the type of truck or structure.

*Includes:* fixed ladders; movable ladders

*Excludes:* stairs, steps (661\*)

**740 Ladders, unspecified**

**741 Ladders—fixed**

This source group classifies fixed ladders that are immovable, permanent fixtures. Included here are ladders that are used in silos, sewers, fire escapes, and swimming pools. Generally, the source for falls involving fixed ladders attached to structures will be coded as the structure.

*Chain ladders*  
*Fire escape ladders*  
*Sewer ladders*

*Silo ladders*  
*Swimming pool ladders*

**742\* Ladders—movable**

\*-Asterisks denote a summary level code not assigned to individual cases.

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This source group classifies ladders that are portable, foldable, or extendable such as step stools, step ladders, extension ladders, and fire truck ladders. Generally, the source for falls from ladders on fire trucks will be coded as the fire truck.

*Includes:* extension ladders; step ladders; straight ladders; truck-mounted ladders, aerial ladder trams

*Excludes:* fixed ladders (741)

**7420 Movable ladders, unspecified**

**7421 Extension ladders**

**7422 Step ladders**

*Folding ladders*

*Stiles*

*Step ladders*

*Step stools*

**7423 Straight ladders**

**7424 Truck mounted ladders, aerial ladder trams**

*Fire truck ladders*

*Utility truck ladders*

**7429 Movable ladders, n.e.c.**

*Ladder assemblies—combination work stands*

**749 Ladders, n.e.c.**

**75\* Medical and surgical instruments and equipment**

This major group classifies all medical, surgical, ophthalmic, and veterinary instruments. Included here are hypodermic needles and syringes; surgical knives (scalpels); medical forceps and retractors; and other medical and surgical instruments.

*Includes:* needles and syringes; scalpels, surgical knives

*Excludes:* oxygen tanks (2123); laser cutting machinery (3592); medical machinery, except x-ray (3721); x-ray machinery (3722); respirators (776); hospital beds (2236); operating tables (2231)

**750 Medical and surgical instruments and equipment, unspecified**

**751\* Medical sharps instruments**

This source group classifies all needles, syringes, and scalpels—commonly referred to as sharps—used in the medical field. Included here are suture needles for making stitches in animals and humans and

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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hypodermic needles or syringes for injecting or removing fluids from animals and humans. Sewing needles are classified in 7942.

### **7510 Medical sharps instruments, unspecified**

#### **7511 Needles, syringes**

*Hypodermic needles*

*Hypodermic syringes*

*Suture needles*

#### **7512 Scalpels**

This code classifies all surgical knives which are used in the medical field. All other nonpowered knives are classified in 7124 (Box cutters and razor knives) or 7125 (Knives, unspecified or n.e.c.).

*Surgical knives*

*Scalpels*

#### **7519 Medical sharps instruments, n.e.c.**

### **752\* Health care and orthopedic equipment**

#### **7520 Health care and orthopedic equipment, unspecified**

#### **7521 Canes, crutches, walkers**

#### **7529 Health care and orthopedic equipment, n.e.c.**

*Corsets*

*Physical therapy equipment*

*Supporters*

*Laboratory equipment, n.e.c.*

*Trusses*

*Orthopedic braces*

*Dentures*

*Prosthetic devices*

### **753\* Wheelchairs and other mobility devices**

This source group classifies nonmotorized and motorized wheelchairs as well as motorized shopping carts and mobility scooters that function similar to motorized wheelchairs. Canes, crutches and walkers are classified in 7521.

#### **7530 Wheelchairs and other mobility devices, unspecified**

#### **7531 Wheelchairs—powered**

#### **7532 Mobility scooters—powered**

*Includes:* motorized shopping carts

*Excludes:* motor scooters (8619; regular nonpowered shopping carts (875))

\*-Asterisks denote a summary level code not assigned to individual cases.



## SOURCE

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**7533 Wheelchairs—nonpowered**  
**7539 Wheelchairs and other mobility devices, n.e.c.**

**754 Latex gloves**

**755 Stretchers, backboards, wheeled cots, stair chairs**

*Includes:* steel chairs used as patient transporting devices; cots used as wheeled stretchers

*Excludes:* operating tables (2236); hospital beds (2231)

**756 Intravenous (IV) poles and machines**

**757 Patient hoists, lifting harnesses**

*Includes:* patient lift slings

*Excludes:* safety harnesses (775)

**759 Medical and surgical instruments and equipment, n.e.c.**

This code classifies medical and surgical instruments that are not elsewhere classified including the items listed below.

*Dental burs*

*Forceps*

*Trephines*

*Retractors*

*Speculums*

**76\* Photographic, athletic, and recreational equipment**

This major group classifies all types of cameras and photographic equipment used in the photography field such as cameras, slide and movie projectors, video cameras, photographic paper, tripods, stands, photographic and x-ray film, and other equipment related to the field of photography. It also includes indoor and outdoor recreation and athletic equipment.

*Includes:* cameras; photographic paper and cloth; projectors; tripods, stands; darkroom apparatus; bats and balls; writing, drawing, and art supplies; camping equipment; gymnasium and exercise equipment; playground equipment; riding goods and equipment; snow skiing equipment; water sports equipment

*Excludes:* photographic and copying solutions (1892); optical scanning devices (3614); photocopiers (3625); x-ray machinery and equipment (3722); firearms and other law enforcement and self-defense equipment (78\*); ammunition (782); athletic clothing and

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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footwear—excluding skis and skates (911\*); recreational and commercial fishing equipment (795\*)

### **760 Photographic, athletic, and recreational equipment, unspecified**

#### **761\* Photographic equipment**

##### **7610 Photographic equipment, unspecified**

##### **7611 Cameras—still and motion picture**

This code classifies photographic cameras of all kinds, both still and motion picture.

*Includes:* aerial cameras, movie cameras, box cameras, pinhole cameras, candid cameras, portrait cameras, folding cameras, reflex cameras, hand cameras, still cameras, home movie cameras, television cameras, instant cameras, video cameras, motion-picture cameras, digital cameras, identity recorders

*Excludes:* cameras used with x-ray equipment (3722); video players and recorders (3915); cell phones (3913)

##### **7612 Photographic paper and cloth**

Included in this source group are photosensitive papers and cloths which are used in developing and printing photographs. Most other paper and paper products are classified in major group 93\*, Paper, books, magazines. Paperboard is coded in 474.

<i>Blueprint cloth</i>	<i>Blueprint paper</i>
<i>Brownprint cloth</i>	<i>Brownprint paper</i>
<i>Diazo cloth</i>	<i>Diazo paper</i>
<i>Photographic cloth</i>	<i>Photographic paper</i>

##### **7613 Projectors—still and motion picture**

This source group classifies photographic equipment used to project and view photographic images such as movie and slide projectors. Large screen and projection televisions are classified in 3914 (Televisions). Video players are classified in 3915 (Video players).

<i>Cinema projectors</i>	<i>Slide projectors</i>
<i>Home movie projectors</i>	

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### **7614 Screens—still and motion picture**

*Movie screens*

### **7615 Tripods, camera stands**

This source group classifies tripods and stands which are used to brace cameras and projectors.

*Camera braces*

*Projector braces*

*Stands*

*Tripods*

### **7619 Photographic equipment, n.e.c.**

This code classifies photographic equipment that is not elsewhere classified.

*Camera parts*

*Darkroom apparatus*

*Developing apparatus*

*Editing equipment*

*Enlargers*

*Exposure meters*

*Film reels*

*Flash bulbs*

*Photographic and graphic  
arts plates*

*Photographic film—motion  
picture, X-Ray, still camera  
Photographic tanks*

### **762\* Writing, drawing, and art supplies**

This source group classifies writing instruments and artist supplies such as pens, pencils, and artists' supplies.

*Includes:* art supplies and materials, except paint; chalk, crayons, marking devices; pens and pencils

*Excludes:* paint (1862); ink and dye (1891); drawing tables (2236); blackboards and bulletin boards (226\*); modeling clay (553); paint brushes (7199); knives (7124, 7125); paper (93\*); paperboard, cardboard, and poster board (474); laser pointers (7294)

### **7620 Writing, drawing, and art supplies, unspecified**

#### **7621 Pens and pencils**

*Refill cartridges*

*Nibs*

*Colored pencils*

*Lead pencils*

*Mechanical pencils*

*Ball-point pens*

*Fountain pens*

*Meter pens*

*Quills*

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### **7622 Chalk, crayons, marking devices**

<i>Artists' chalk</i>	<i>Charcoal crayons</i>
<i>Blackboard chalk</i>	<i>Wax crayons</i>
<i>Marking chalk</i>	<i>Felt markers</i>
<i>Chalk lines</i>	<i>Soft tip markers</i>
<i>Chalk crayons</i>	<i>Pastels</i>

### **7623 Art supplies and materials, except paint**

<i>Canvasses</i>	<i>Erasers—pencil, pen, chalk</i>
<i>Easels</i>	<i>Canvas frames</i>
<i>Eraser guides, shields</i>	<i>Picture frames</i>

### **7624 Compasses, protractors**

*Includes:* Measuring compasses

*Excludes:* Magnetic compasses (7369)

### **7629 Writing, drawing, and art supplies, n.e.c.**

<i>Hand seal dies</i>	<i>Hand stamps</i>
<i>Ink pads</i>	<i>Rubber stamps</i>
<i>Textile printing screens</i>	<i>Stencils</i>
<i>Hand seals</i>	

### **763\* Recreation and athletic equipment**

*Excludes:* weapons (78\*)

### **7630 Recreation and athletic equipment, unspecified**

### **7631 Balls, pucks**

### **7632 Baseball bats, hockey sticks, rackets**

<i>Golf clubs</i>	<i>Tennis rackets</i>
<i>Lacrosse sticks</i>	

### **7633 Gymnasium and exercise equipment**

This code classifies equipment that is used for exercising, weight lifting, and gymnastics such as jump ropes, gym mats, exercise machines, exercise cycles, jogging machines, rowing machines, treadmills, weight-lifting equipment, and all other equipment used for exercising and gymnastics.

<i>Exercise cycles</i>	<i>Jump ropes</i>
<i>Exercise machines</i>	<i>Rowing machines</i>
<i>Gym mats</i>	<i>Treadmills</i>

\*-Asterisks denote a summary level code not assigned to individual cases.

*Jogging machines*  
*Boxing equipment*

*Weight-lifting equipment*

**7634 Camping equipment**

This code classifies equipment that is used for camping outdoors.

*Includes:* portable lanterns, air mattresses, canteens, sleeping bags, mess kits, tents and accessories

*Excludes:* tarps (472); flashlights (7299); backpacks (2155), cots (2231, 755)

**7635 Playground equipment**

This code classifies equipment that is commonly used in playgrounds. Included are swings and swing sets, sliding boards, sandboxes, and outdoor play sets.

*Jungle bars*

*Outdoor play sets*

*Sandboxes*

*Sliding boards*

*Swing sets*

*Swings*

**7636 Riding equipment**

This code classifies horse riding goods and equipment, including saddles and riding crops.

*Crops, riding*

*Reins*

*Saddlery*

*Saddles*

**7637 Snow sports equipment**

This code classifies equipment related to snow skiing.

*Includes:* snow skis; ski poles; bobsleds; sleds; toboggans; luges; snowboards; ice skates

*Excludes:* safety glasses, goggles (777); snowmobiles (8614); skiing apparel (911\*)

**7638 Water sports equipment**

This code classifies all water sports equipment—except suits and apparel—used in diving (excluding oxygen tanks, 2123), surfing, swimming, and other related water sports. Included here are

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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surfboards, skin diving equipment, scuba diving equipment, kick boards, windsurfing boards and equipment, and sailboards.

*Includes:* diving masks, nose plugs, sailboards, flotation devices, scuba diving equipment (except apparel), inner tubes—recreational, skin diving equipment, kick boards, snorkels, life preservers, surfboards, water skis, paddles, oars

*Excludes:* fishing equipment (795\*) oxygen tanks (2123); ear plugs (772); water vehicles (83\*); jet skis (839); bathing suits, wet suits, beach apparel (911\*)

### **7639 Recreation and athletic equipment, n.e.c.**

This code classifies recreation and athletic equipment not elsewhere classified including the items listed below.

*Includes:* arcade games, archery equipment, pinball machines, roller skates, roller blades, billiards tables and equipment, ping pong tables, skateboards, boomerangs, slot machines, video games

*Excludes:* respirators (776); personal protective devices (77\*); mopeds (8416); bicycles (851); powered golf carts (8612); go carts (8619)

### **769\* Photographic, athletic, and recreational equipment, n.e.c.**

### **77\* Protective equipment, except clothing**

This major group classifies protective equipment (except clothing) worn to protect workers from injuries or illnesses in hazardous work environments.

*Includes:* dust masks; earplugs and hearing protectors; face shields, welding masks; hard hats; lifelines, lanyards, safety belts or harnesses; respirators; safety glasses or goggles

*Excludes:* oxygen tanks (2123); protective clothing and other apparel (911\*); identification badge lanyards (9122); latex gloves (754); diving masks and nose plugs (7638); life preservers and flotation devices (7638); diving equipment, except oxygen tanks (7638)

### **770 Protective equipment, except clothing, unspecified**

#### **771 Dust masks**

#### **772 Ear plugs, hearing protectors**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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**773 Face shields, welding masks**

**774 Hard hats**

**775 Lifelines, lanyards, safety belts, harnesses**

*Excludes:* clothing and other apparel (911\*), identification badge lanyards (9122); life preservers (7638)

**776 Respirators**

This category classifies all respiratory protection equipment including air supply masks, self-contained breathing apparatus (SCBA), and air helmets. Oxygen tanks are classified in code 2123 (Oxygen tanks). Scuba equipment, except for apparel and oxygen tanks, is coded in 7638.

**777 Safety glasses or goggles**

**779 Protective equipment, except clothing, n.e.c.**

*Bandages*

*Latex bandages*

**78\* Firearms, law enforcement, and other self-defense equipment**

**780 Firearms, law enforcement, and other self-defense equipment, unspecified**

**781\* Firearms**

This source group classifies all types of firearms and their parts. Select the appropriate firearm as the source of injuries due to gunshot wounds.

*Includes:* pistols, handguns, revolvers, rifles, shotguns, bombs torpedoes, grenades, missiles, rockets, artillery shells

*Excludes:* recreational archery equipment (7639); bullets, pellets (782); taser guns, stun guns, electroshock guns (7832); knives (7124, 7125); air-powered and paint ball guns (784)

**7810 Firearm, unspecified**

**7811 Pistol, handgun, revolver**

**7812 Rifle, shotgun**

**7813 Explosive devices**

**7819 Firearm, n.e.c.**

**782 Ammunition**

This major group classifies those projectiles which are fired by a weapon.

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Includes:* bullets; pellets; shot; shrapnel from explosives and bullets

*Excludes:* dynamite (1851); gunpowder (1853); fireworks (1854); firearms (781\*)

### **783\* Other law enforcement and self-defense equipment**

#### **7830 Other law enforcement and self-defense equipment, unspecified**

#### **7831 Batons, nightsticks**

*Night sticks*

*Billy club*

*Blackjacks*

*Bludgeons*

*Clubs*

*Numchucks*

#### **7832 Tasers, stun guns**

#### **7833 Tear gas, mace, pepper spray**

*Bromobenzyl cyanide*

*Ethyl iodoacetate*

*Chloroacetophenone*

*Lacrimogenic gas*

#### **7834 Handcuffs**

#### **7839 Law enforcement and self-defense equipment, n.e.c.**

#### **784 Air-powered guns, paintball guns**

*BB guns*

#### **789 Firearms, law enforcement, and other self-defense equipment, n.e.c.**

### **79\* Other tools, instruments, and equipment**

This major group classifies other tools, instruments, and equipment not previously classified.

*Includes:* clocks; cooking and eating utensils, except knives; firearms; health care and orthopedic equipment, n.e.c.; musical instruments; sewing notions, n.e.c.

*Excludes:* containers (21\*); furniture and fixtures (22\*); tool chests (2212); machinery (3\*); mechanical jacks (347); parts and materials (4\*); hoisting accessories (43\*); machine, tool, and electric parts (44\*); tool parts, accessories (443\*); tarps (472); writing, drawing, and art supplies (762\*)

#### **790 Other tools, instruments, and equipment, unspecified**

#### **791 Clocks**

\*-Asterisks denote a summary level code not assigned to individual cases.



## SOURCE

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This source group classifies digital and analog alarm clocks, wall clocks and mantle clocks, as well as grandfather clocks. Included here are office clocks, cuckoo clocks, ships clocks, travel alarm clocks, and standing clocks.

*Includes:* cuckoo clocks, standing clocks, grandfather clocks, travel alarm clocks, office clocks, ship clocks, time clocks, hourglasses

*Excludes:* clock radios (3911); wrist and pocket watches (9123)

### **792 Cooking and eating utensils, except knives**

<i>Bottle openers</i>	<i>Spatulas</i>
<i>Forks</i>	<i>Spoons</i>
<i>Kitchen utensils</i>	<i>Skewers</i>
<i>Rolling pins</i>	<i>Tongs</i>

### **793\* Musical instruments**

This source group classifies all musical instruments and their associated parts and accessories, including music stands. Piano benches are classified in 2232 (Benches, workbenches, saw horses). Musical instrument cases are classified in 2159 (Luggage, handbags, n.e.c.).

#### **7930 Musical instrument, unspecified**

#### **7931 Pianos, organs, keyboards**

#### **7939 Musical instruments, n.e.c.**

<i>Accordions</i>	<i>Musical instruments—</i>
<i>Banjos</i>	<i>  electronic except pianos</i>
<i>Bassoons</i>	<i>Musical instruments—non-</i>
<i>Bells</i>	<i>  electronic, except pianos</i>
<i>Bugles</i>	<i>Musical instruments—</i>
<i>Cellos</i>	<i>  percussion</i>
<i>Chimes</i>	<i>Oboes</i>
<i>Clarinets</i>	<i>Ocarinas</i>
<i>Cornets</i>	<i>Octophones</i>
<i>Cymbals</i>	<i>Piccolos</i>
<i>Drums</i>	<i>Reeds</i>
<i>Flutes</i>	<i>Saxophones</i>
<i>French horns</i>	<i>Synthesizers</i>
<i>Guitars</i>	<i>Trombones</i>
<i>Harmonicas</i>	<i>Trumpets</i>
<i>Harps</i>	<i>Ukuleles</i>
<i>Harpsichords</i>	<i>Vibraphones</i>
<i>Mandolins</i>	<i>Violas</i>

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Marimbas*  
*Musical instrument*  
*accessories (e.g.*  
*reeds, mouthpieces,*  
*stands, traps)*

*Violins*  
*Wind chimes*  
*Xylophones*  
*Zithers*

### **794\* Sewing notions**

This source group classifies sewing notions which are commonly used to produce hand-sewn articles.

*Includes:* fabric pins, safety pins, sewing needles, thimbles

*Excludes:* hypodermic needles (7511)

**7940 Sewing notions, unspecified**

**7941 Fabric pins, safety pins**

**7942 Sewing needles**

**7949 Sewing notions, n.e.c.**

### **795\* Fishing equipment**

This source group classifies fishing equipment, both commercial and recreational

*Includes:* lobster and crab pots, fishing hooks, fishing nets

*Excludes:* commercial fishing vessels (832)

**7950 Fishing equipment, unspecified**

**7951 Recreational fishing equipment**

**7952 Commercial fishing equipment**

*Includes:* trawling nets

**7959 Fishing equipment, n.e.c.**

### **799 Tools, instruments, and equipment, n.e.c.**

This source group classifies other tools, instruments, and equipment not elsewhere classified.

*Includes:* candles, clothes hangers, lighters, climbing spurs, matches, combs, soap dispensers, curlers, stilts, fly swatters, tobacco pipes, geographical globes, umbrellas, safety cones, calculators—portable

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Excludes:* containers, furniture, and fixtures (2\*); tool chests (2212); machinery (3\*); mechanical jacks (347); parts and materials (4\*); hoisting accessories (43\*); machine, tool, and electric parts (44\*); tool parts, accessories (443\*); tarps (472)

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### 8\* VEHICLES

This division classifies vehicles that generally move on wheels, runners, water, or air. A vehicle serves the primary purpose of **transporting** people (e.g., automobiles, passenger trains), but it may serve as a means of **carrying or transferring** goods and materials (e.g., forklifts, wheelbarrows) or to pull other machinery (tractors). In addition, a vehicle may serve primarily as a recreational device (e.g., canoes, bicycles, jet skis, etc.). Vehicles for all modes of public, private, work-related, and recreational transportation are included in this division.

Machinery which are primarily used for agricultural, construction, logging, mining, manufacturing, and other **processing purposes** are classified in Division 3, Machinery.

**A vehicle or piece of mobile equipment should be selected whenever the event is a transportation incident.**

If a vehicle part that produces an injury is **attached** to the vehicle, then the entire vehicle should be listed as the source, unless the injury resulted from overexertion (such as pulling the cargo door of a tractor trailer), the incident involved a tractor/agricultural equipment combination, or the source of injury was a vehicle floor in a non-transportation incident.

If a vehicle part is known to be **unattached and independent** of a vehicle—or if it is probable that a vehicle is not involved in the injury—then that specific part should be listed as the source. Unattached vehicle and mobile equipment parts are classified in major group 48 (Vehicle and mobile equipment parts). Unattached trailers are classified in source group 483 (Trailers). Unattached vehicle windshields and windows are classified in source group 484 (Windshields, vehicle windows). Unattached rail cars are included in 8244.

*Includes:* air vehicles; rail vehicles and rail cars; water vehicles; motorized highway vehicles; nonmotorized highway vehicles; off-road vehicles including powered plant and industrial vehicles; tractors; nonpowered plant and industrial vehicles

*Excludes:* machinery (3\*); agricultural and garden machinery (31\*); construction, logging, and mining machinery (32\*); material and personnel handling machinery (34\*); ski lifts (3481); unattached vehicle and mobile equipment parts (48\*); vehicle doors, liftgates, tailgates (485\*)

#### 80 Vehicle, unspecified

#### 81\* Aircraft

This major group classifies fixed- and rotary-winged aircraft. The aircraft may be

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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designed for public, private, or military use.

**An air vehicle code should be selected as either the source or secondary source whenever the event is an aircraft incident.**

*Includes:* powered fixed wing aircraft; powered rotary wing aircraft; non-powered aircraft; spacecraft

### **810 Aircraft unspecified**

#### **811\* Airplanes—powered fixed wing**

This source group classifies aircraft which is supported by a fixed wing structure. The airplane can be jet engine or propeller powered.

*Includes:* turbine or piston type aircraft, planes

*Excludes:* helicopters (8121); nonpowered gliders (8131)

#### **8110 Airplane—powered fixed wing, unspecified**

#### **8111 Airplane—jet or turbine engine**

*Includes:* turbojets, turboprops, commercial jet, jet aircraft

#### **8112 Airplane—propeller-driven or piston engine**

*Includes:* light aircraft, general aviation aircraft, and crop dusters unless specified otherwise

#### **8119 Airplane—powered fixed wing, n.e.c**

#### **812\* Aircraft —powered rotary wing**

This source group classifies aircraft which is supported by a rotary wing. The aircraft can be rotary wing only or a combination of rotary wing and jet propulsion.

*Includes:* helicopters; tiltrotor aircraft

*Excludes:* turbine airplanes (8111), piston airplanes (8112)

#### **8120 Aircraft—powered rotary wing, unspecified**

#### **8121 Helicopter**

*Includes:* air ambulances, unless otherwise specified; tiltrotor aircraft

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### **8129 Aircraft—powered rotary wing, n.e.c**

### **813\* Aircraft—nonpowered**

This source group classifies aircraft that glide or float without some type of power source, such as jet propulsion, propellers, or hot air.

*Includes:* nonpowered gliders; parachutes

*Excludes:* jets (8111), propeller airplanes (8112), helicopters (8121), hot air balloons (819), dirigibles (819)

### **8130 Aircraft—nonpowered, unspecified**

### **8131 Glider, hang glider—nonpowered**

### **8132 Parachute**

### **8139 Aircraft—nonpowered, n.e.c**

### **819 Aircraft, n.e.c**

This category classifies aircraft which are not previously classified.

*Includes:* hot-air balloons, dirigibles, spacecraft

### **82\* Rail vehicles**

This major group classifies mass transit and freight vehicles operating above and below ground. If the injury is a confined space injury, that is if an injury occurs inside a tanker rail car resulting from entrapment or hazardous atmospheric conditions, use code 6189, vehicle confined space, n.e.c.

### **820 Rail vehicle, unspecified**

### **821 Amusement park rail vehicle**

If it is not known whether the ride is a rail or nonrail vehicle, code 3482.

*Includes:* monorail rides, roller coasters, other rides traveling on rails

*Excludes:* aerial gondola rides (3481); Ferris wheel and other nonrail amusement rides, except aerial gondola rides (3482)

### **822 Streetcar, trolley, cable car, light rail**

### **823 Subway, elevated train**

### **824\* Train, locomotive, rail car**

### **8240 Train, locomotive, rail car, unspecified**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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**8241 Freight train**

**8242 Passenger train, heavy rail**

This code includes passenger trains running on freight line tracks.

**8243 Locomotive—unattached to rail car(s)**

**8244 Rail car(s)—unattached to locomotive**

**8249 Train, locomotive, rail car, n.e.c.**

**825 Rail-mounted construction, cleaning, maintenance machine**

*Includes:* rail-mounted machinery for construction, cleaning, and maintenance of rail lines; highway vehicles outfitted with railroad wheels while running on rails

*Excludes:* nonrail-mounted construction equipment used in railroad, construction, cleaning, maintenance (3\*); rail-mounted cranes (3432)

**826 Industrial, mining rail vehicle**

This code includes all rail vehicles used to transport goods and materials within an industrial or mine site.

*Excludes:* heavy rail passenger train (8242), freight train (8241)

**829 Rail vehicle, n.e.c**

**83\* Water vehicles**

This major group classifies water vehicles used for transporting people or materials, for commercial fishing, or for recreational purposes. Use code 835 if it is unknown whether a yacht was under sail or motor power at the time of the incident.

*Includes:* powered and nonpowered water vessels; water taxis

*Excludes:* barge-mounted cranes, floating cranes (3433)

**830 Water vehicle, unspecified**

**831 Barge**

**832 Commercial fishing vessel**

*Commercial fishing boats*

**833 Tugboat, towboat**

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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**834 Cargo ship, freighter, passenger liner, ship, excluding sail-powered**

**835 Motorboat, motorized yacht**  
*Water taxi*

**836 Sailboat**  
*Sail-based yacht*

**837 Rowboat, kayak, canoe**

**838 Raft, floating dock**

**839 Water vehicle, n.e.c**  
*Jet skis* *Hovercraft*

**84\* Highway vehicles, motorized**

This major group classifies vehicles which are operated primarily on highways and other public roadways and used for transportation, hauling, delivering, and emergencies. If it is unknown whether a vehicle is being used to carry passengers or cargo, use the first code in the list. For example, if source documents say “van,” code as 8415.

*Includes:* automobiles; buses; motorcycles, mopeds, dirt bikes; motor homes, recreational vehicles; trucks; vans

*Excludes:* nonmotorized highway vehicles such as bicycles (851); horse-drawn carriages (852); off-road vehicles such as forklifts (8621); tractors (863\*); golf carts (8612)

**840 Highway vehicle, motorized, unspecified**

**841\* Passenger vehicles—automobiles, buses, and passenger vans**

This source group classifies vehicles that are used primarily for transporting passengers. Vehicles for transporting goods and materials are in source group 842. Vans that are not specified as either passenger or cargo should be coded as 8415, passenger van.

*Excludes:* trucks (842\*), pickup trucks and SUV’s (843\*)

**8410 Passenger vehicle, unspecified**

**8411 Ambulance, police, and other emergency passenger vehicle**

*Includes:* squad car, cruiser, patrol car, police car, ambulance

**8412 Taxi**

\*-Asterisks denote a summary level code not assigned to individual cases.



## SOURCE

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This code includes automobiles, vans, SUVs, and limos used as taxis. Airport shuttles are also included here.

*Excludes:* animal-powered taxi (85\*), pedicab (851); water taxi (835); air taxi (81\*)

### **8413 Automobile**

*Includes:* car, limousine, unspecified automobile or car

*Excludes:* taxi (8412), police car (8411), rail car (8244), racecar (8613); armored car (8429)

### **8414 Bus**

*Includes:* transit bus, tour or charter bus, school bus, intercity bus

### **8415 Passenger van**

*Excludes:* cargo and delivery van (8426), courtesy airport van (8412), taxi (8412)

### **8416 Motorcycle, moped, dirt bike**

*Includes:* motor bike, motor scooter

### **8417 Motor home, RV**

*Includes:* recreational vehicle (RV)

*Excludes:* mobile home (6254), semi-permanent trailer home (6254), manufactured home (6254)

### **8419 Passenger vehicle, n.e.c**

### **842\* Trucks—motorized freight hauling and utility**

This source group classifies trucks which are commonly used for transporting, hauling, and delivering goods and materials. Delivery trucks are straight or box trucks that are typically used to deliver such items as parcels, beverages, oil, linens, and furniture. Straight and box trucks used for other purposes besides delivering goods are also included in code 8426. Delivery and cargo vans are coded in 8426. Semitrailers that are used for delivering automobiles or other items are coded 8421.

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Includes:* delivery (box) trucks; dump trucks; semitrailers, tractor trailers, trailer trucks; boom trucks; cherry pickers unless known to be non truck-mounted; dump trucks; garbage trucks; fire trucks; delivery trucks and vans; cement trucks; tow trucks; armored trucks; snow plows

*Excludes:* street sweepers (894); forklifts (8621); tractors (863\*); hand trucks (871); passenger vans (8415); non truck-mounted aerial lifts (3467); pickup trucks (8431); SUVs (8432)

### **8420 Truck—motorized freight hauling and utility, unspecified**

*Includes:* truck, unspecified

### **8421 Semi, tractor-trailer, tanker truck**

*Includes:* tanker trucks, flatbed trucks—except straight trucks, logging trucks, car haulers

*Excludes:* fire trucks (8425)

### **8422 Boom truck, bucket or basket hoist truck**

*Includes:* utility bucket trucks; cherry-pickers, unless known to be non-truck-mounted

*Excludes:* non-truck-mounted aerial lifts (3467); non-truck-mounted cherry pickers (3469)

### **8423 Dump truck**

### **8424 Garbage, recycling, or refuse truck**

### **8425 Fire truck, other emergency equipment truck**

*Includes:* hazmat trucks, SWAT trucks, emergency equipment haulers

*Excludes:* emergency passenger vehicles (8411)

### **8426 Delivery truck or van**

*Includes:* box trucks, straight trucks, postal delivery trucks, cargo vans, delivery vans

*Excludes:* SUV's, sports utility vehicles (8432); pickup trucks used for deliveries (8431); passenger vans (8415)

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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**8427 Cement truck, concrete mixer truck**

**8428 Tow truck**

**8429 Truck—motorized freight hauling and utility, n.e.c**

*Includes:* armored cars, armored trucks, snow plows

*Excludes:* armored personnel carriers (891); tanks (892); Humvees (893)

**843\* Multi-purpose highway vehicles**

This source category includes vehicles that can be used either for transport of passengers or of goods and materials as their primary function.

*Excludes:* SUV's used as taxis (8412)

**8430 Multi-purpose highway vehicle, unspecified**

**8431 Pickup truck**

**8432 SUV, sports utility vehicle**

*Includes:* 4-wheel drive vehicles, jeeps

*Excludes:* SUV's used as taxis (8412)

**8439 Multi-purpose highway vehicle, n.e.c.**

**849 Highway vehicle, motorized, n.e.c.**

**85\* Animal- and human- powered vehicles**

This source group classifies animal- or human- powered highway vehicles, as well as other non-motorized highway vehicles.

*Includes:* horse-drawn carriages; bicycles—road and mountain, pedal cycles

*Excludes:* motorized highway vehicles (84\*), nonpowered plant and industrial vehicles (87\*), horses being ridden (5154)

**850 Animal- or human- powered vehicle, unspecified**

**851 Bicycle, pedal cycle**

*Includes:* unicycle, pedicab, bicycle rickshaw, road bicycle, mountain bicycle

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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- 852 Horse-drawn carriage, buggy**
- 853 Animal-powered wagon**
- 859 Animal- or human-powered vehicle, n.e.c.**

### **86\* Off-road and industrial vehicles—powered**

This major group classifies off-road vehicles that are primarily used for transportation in nonroadway areas, such as on farms, industrial premises, and recreational areas.

*Includes:* all terrain vehicles (ATV's); powered golf carts; snowmobiles; motorized scooters, except for mobility scooters

*Excludes:* motorcycles, dirt bikes (8416); jeeps, four-wheel drive trucks, sports utility vehicles (8432); mountain bicycles (851); wheelchairs and mobility scooters (753\*)

### **860 Off-road or industrial vehicle—powered, unspecified**

### **861\* Off-road passenger vehicles—powered**

This source group classifies vehicles used for transporting passengers in nonroadway areas.

#### **8610 Off-road passenger vehicle—powered, unspecified**

#### **8611 ATV, all terrain vehicle**

#### **8612 Golf cart, personnel transport cart**

#### **8613 Racecar**

#### **8614 Snowmobile**

### **8619 Off-road passenger vehicles—powered, n.e.c**

*Includes:* Segways <sup>TM</sup>

*Excludes* wheelchairs and mobility scooters (753\*), mopeds and motor scooters (8416)

### **862\* Industrial vehicles, material hauling and transport—powered**

This group classifies forklifts, powered industrial carriers, and industrial vehicles which are used for carrying and transporting heavy materials in primarily nonroadway areas.

*Includes:* forklifts; powered industrial carriers; airport utility vehicles; powered pallet jacks

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Excludes:* tractors and power take-offs (863\*); product assembly robots (392)

**8620 Industrial vehicle, material hauling and transport—powered, unspecified**

**8621 Forklift, order picker, platform truck—powered**

*Includes:* tow motors, lift trucks, skid steers with forklift attachment

**8622 Powered industrial carrier**

*Includes:* container, lumber, stacker, and straddle carriers

**8623 Pallet jack—powered**

*Includes:* motorized pallet jacks—riding or hand

*Excludes:* nonpowered pallet jacks (872); jacks, other than pallet (347)

**8624 Airport utility vehicle—powered**

*Includes:* powered luggage trucks or trains, powered airplane tugs

**8629 Industrial vehicle, material hauling and transport—powered, n.e.c**

**863\* Tractors, PTOs**

This source group classifies tractors which are commonly used for towing agricultural and hauling implements. Power take-offs (PTOs) connecting tractors to another piece of equipment are coded here.

Incidents resulting solely from the equipment attached to the tractor, such as being caught in a baler, should be coded to the specific equipment involved. Incidents in which the worker falls from a moving tractor and is struck by the equipment being pulled are coded with the tractor as the source and the attached equipment as the secondary source.

*Includes:* farm, industrial, and construction tractors; power take-offs

*Excludes:* haying machines (3123); tractor-mowers (3123); hay mowers (3123); brush hogs (3123); loaders (322\*); semi tractor trailers (8421)

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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- 8630 Tractor, unspecified**
- 8631 Farm tractor**
- 8632 Construction tractor**
- 8633 Industrial tractor**
- 8634 Power take-off (PTO)**
- 8639 Tractor, n.e.c.**

### **869 Off-road or industrial vehicle—powered, n.e.c**

### **87\* Plant and industrial vehicles—nonpowered**

This source group classifies nonpowered plant and industrial vehicles (and other wheeled equipment) used for transporting and hauling payloads.

*Includes:* nonpowered carts, dollies, and hand trucks (871); nonpowered shopping carts (875); nonpowered wheelbarrows (874); nonpowered pallet jacks (872)

*Excludes:* motorized shopping carts and mobility scooters (7532); powered plant and industrial vehicles (86\*)

### **870 Plant and industrial vehicle—nonpowered, unspecified**

### **871 Cart, dolly, hand truck—nonpowered**

*Includes:* laundry cart; nonpowered platform cart

*Excludes:* nonpowered shopping cart or grocery carriage (875); motorized shopping carts (7532)

### **872 Pallet jack—nonpowered**

*Includes:* nonmotorized pallet jack

### **873 Wagon**

*Includes:* tobacco wagon, hay wagon, sales wagon

*Excludes:* animal-drawn wagon (853)

### **874 Wheelbarrow**

### **875 Shopping cart, grocery carriage—nonpowered**

### **879 Plant and industrial vehicle—nonpowered, n.e.c**

### **89\* Other vehicles**

This category includes vehicles that are not elsewhere classified, including

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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military vehicles.

- 890** Other vehicles, unspecified
- 891** Armored personnel carrier
- 892** Tank
- 893** Humvee
- 894** Street sweeping and cleaning machinery
  
- 899** Vehicle, n.e.c
  - Zamboni*

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### 9\* OTHER SOURCES

This division classifies sources of injuries and illness that are not classified in the previous divisions. Classified here are apparel and textiles; environmental and elemental conditions; paper, books, magazines; scrap, waste, debris; steam, vapors, liquids, ice; and other sources n.e.c.

*Includes:* apparel and textiles; environmental and elemental conditions; paper, books, magazines; scrap, waste, debris; steam, vapors, liquids, and ice

*Excludes:* (See individual major groups)

### 90 Other sources, unspecified

#### 91\* Apparel and textiles

This major group classifies clothing apparel and accessories, regardless of fabric type. Jewelry, watches, eye glasses; textiles; laundry; and linens are included.

*Includes:* clothing and shoes; eye glasses, jewelry, and watches; textiles; laundry; linens

*Excludes:* unprocessed fur, wool, and leather (521\*); hard hats (774); safety glasses or goggles (777); snow skis (7637); ice skates (7637); roller skates (7639); tool belts (2157); laundry bags (2111); laundry baskets (2115); laundry bins (2118); laundry hampers (2119)

#### 910 Apparel and textiles, unspecified

#### 911\* Clothing and shoes

This source group classifies all products and apparel that clothe the human body regardless of fabric type. This category includes most protective clothing, including aprons, gloves (except latex), and safety shoes. Safety glasses and goggles are coded in 777. Hard hats are coded in 774.

*Includes:* belts, gloves, neckties, scarves; blouses shirts, dresses, trousers, skirts; hats, caps; shoes, boots, slippers, sandals; suits, coats, jackets

*Excludes:* fur, wool, and leather (521\*); hard hats (774); snow skis (7637); ice skates (7637); water skis (7638); inline and roller skates (7639); eye glasses (9121); safety glasses and goggles (777); latex gloves (754); ID badge lanyards (9122)

\*-Asterisks denote a summary level code not assigned to individual cases.



## SOURCE

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### **9110 Clothing, unspecified**

#### **9111 Belts, gloves, neckties, scarves**

*Excludes:* latex gloves (754); tool belts (2157); safety belts (775)

#### **9112 Blouses, shirts, dresses, trousers, skirts**

#### **9113 Hats, caps**

#### **9114 Shoes, boots, slippers, sandals**

#### **9115 Suits, coats, jackets**

#### **9119 Clothing, n.e.c.**

*Aprons*

*Bathing suits*

*Briefs*

*Diving suits*

*Lingerie*

*Nightgowns*

*Nightshirts*

*Pajamas*

*Swimsuits*

#### **912\* Eye glasses, jewelry, and watches**

*Includes:* eye glass chains (9122), ID badge lanyards (9122)

*Excludes:* safety glasses and goggles (777)

#### **9120 Eye glasses, jewelry, and watches, unspecified**

#### **9121 Eye glasses, sunglasses**

#### **9122 Jewelry, ID badge lanyards**

*Diamond jewelry*

*Earrings*

*Gold jewelry*

*Eye glass chains*

#### **9123 Watches**

#### **913\* Textiles**

This source group classifies all fabrics, synthetic and natural, whether woven, knitted, felted, bonded, or crocheted.

*Includes:* fabric; yarn, thread; cloth

*Excludes:* bolts or rolls of fabric (2133); floor, wall, window coverings (222); beds, mattresses (2231); textile, apparel, leather production machinery (376\*); clothing and shoes (911\*); sheets, towels, linens, bedding (915); unprocessed fur, wool, and leather hides (521\*)

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### **9130 Textiles, unspecified**

#### **9131 Fabric** *Cloth*

#### **9132 Yarn, thread**

#### **9139 Textiles, n.e.c.**

### **914 Laundry**

This source includes loose laundry items not contained in a bag or bin. Laundry bags are in 2111, laundry baskets 2115, laundry bins 2118, and laundry hampers 2119.

### **915 Sheets, towels, linens, bedding**

*Includes:* blankets, comforters, tablecloths, napkins, face cloths, wash cloths

*Excludes:* beds, mattresses, and box springs (2231); air mattresses (7634)

### **919 Apparel and textiles, n.e.c.**

This source group classifies apparel and textiles not elsewhere classified.

## **92\* Environmental and elemental conditions**

This major group classifies conditions of the environment such as air pressure, temperature, and other atmospheric conditions, as well as events such as natural disasters. **Select weather and atmospheric conditions or geological events (floods, earthquakes, avalanches) as the source of injury when that is the only possible source identified.** Code 9252, waves, surges, rough seas, includes high waves, hurricane storm surges, and tidal waves. If a hurricane caused the damage rather than a storm surge, code in 9277.

*Includes:* air pressure; avalanche, mudslide; earthquake; fire, flame, smoke; flooding; environmental temperature extremes; weather and atmospheric conditions; noise, sun, welders' flash, indoor air quality

### **920 Environmental and elemental conditions, unspecified**

#### **921\* Air pressure**

This source group classifies abnormal environmental air pressure conditions as well as pressurized air. Low pressure refers to rarefied air at

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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extreme elevations. Blasts of pressurized air and water are coded in 9213 and 9254, respectively. Water pressure, such as that encountered in caisson work and deep diving, is coded in 9253.

- 9210 Air pressure, unspecified**
- 9211 Atmospheric pressure—high or low**
- 9212 Pressurized air—environmental**
- 9213 Pressurized air—blast**
- 9219 Air pressure, n.e.c.**

- 922 Avalanche, mudslide**
- 923 Earthquake**

### **924\* Fire, flame, smoke**

This source group classifies fire, flame, smoke, and fire gases. When an injury or illness is inflicted by hot objects or substances, code the specific object or substance.

*Includes:* fire, flame, smoke, fire gases

*Excludes:* welding fumes (147)

- 9240 Fire, flame, smoke, unspecified**
- 9241 Fire, flame**
- 9242 Tobacco smoke**
- 9243 Smoke, fire gases, n.e.c.**

- 9248 Multiple fire, flame, smoke**  
*Fire and smoke combined*

### **925\* Flooding and other water sources**

*Includes:* floods; waves, storm surges, and rough seas; water pressure; blasts of pressurized water

*Excludes:* rain (9275); water on floor (9521); natural bodies of water (673\*); rough seas associated with tornados, hurricanes, typhoons, or tropical storms (9277)

- 9250 Flooding and other water sources, unspecified**
- 9251 Flooding**
- 9252 Waves, surges, rough seas**
- 9253 Water pressure—high or low**
- 9254 Pressurized water—blast**
- 9259 Flooding and other water sources, n.e.c.**

\*-Asterisks denote a summary level code not assigned to individual cases.

**926\* Temperature extremes—environmental**

This source group classifies atmospheric and environmental temperature extremes—either indoors or outdoors. Codes in this category are used primarily in instances of heat stroke, heat exhaustion, hypothermia, etc.

*Excludes:* fire, flame, smoke (924\*); ice, sleet, snow (9273); hot or cold objects

**9260 Temperature extremes—environmental, unspecified**

**9261 Cold—environmental**

**9262 Heat—environmental**

**927\* Weather and atmospheric conditions**

This source group classifies weather and atmospheric conditions. If rain or high winds are a result of a hurricane or tornado, code the hurricane or tornado as the source. When the injury results from a weather condition, but is inflicted by another specific source, code the specific source. For example, if high winds result in blowing sawdust which irritates the employee's eyes, the sawdust should be coded as the source.

*Excludes:* air pressure (921\*); avalanche (922); earthquake (923); flooding (9251); hot and cold environmental temperature extremes (926\*); sun (9292); waves, surges, rough seas—except those occurring during tornado, hurricane, typhoon (9252); ice chips, cubes, and blocks (953); ice on freezer floor (953)

**9270 Weather and atmospheric conditions, unspecified**

**9271 Fog**

**9272 High winds, gusts, turbulence**

**9273 Ice, sleet, snow**

*Icicle*

**9274 Lightning**

**9275 Rain**

**9276 Smog, poor outdoor air quality**

**9277 Tornado, hurricane, typhoon**

*Tropical storm*

**9278 Multiple weather and atmospheric conditions**

*Rain and fog combined*

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\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### **9279 Weather and atmospheric conditions, n.e.c.**

### **929\* Other environmental and elemental conditions**

*Includes:* noise, sun, welder's flash, UV light, microwaves, poor air quality, oxygen deficiency

*Excludes:* smog (9276); environmental heat (9262)

#### **9291 Noise**

#### **9292 Sun**

#### **9293 Welders' flash**

### **9294 Other ultraviolet (UV) light**

This code is used for tanning bed lights, sun lamps, and mercury and xenon arc lamps, such as those used in fluorescence microscopy. Sunlight is coded in 9292 and welders' flash in 9293.

### **9295 Microwaves**

*Excludes:* microwave ovens (3326)

### **9296 Poor indoor air quality**

### **9297 Oxygen-deficient environment**

### **9299 Environmental and elemental conditions, n.e.c.**

## **93\* Paper, books, magazines**

This major group classifies paper and paper products such as books and magazines. It also includes unbound stacks of paper.

*Excludes:* containers (2\*); rolls of paper (2133); photographic paper (7612); cardboard and paperboard (474); cardboard boxes (2114)

### **930 Paper, books, magazines, unspecified**

### **931 Books, notebooks, magazines, catalogues**

### **932 Paper, sheets**

*Stacks of paper*

### **933 Binders, files, charts**

*Medical charts*

*File folders*

### **939 Paper, books, magazines, n.e.c.**

*File cards*

*Playing cards*

*Newspaper*

*Newsprint (except rolls)*

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### **94\* Scrap, waste, debris**

This major source group classifies discarded fragments such as ashes, garbage, sewage, etc.; as well as other dirt, glass, metal, wood, rubber, or unidentified particles.

*Includes:* chips, particles, splinters; sewage; construction debris; trash, garbage; scrap metal

*Excludes:* chemical metallic particulates, trace elements, dusts, powders, fumes (14\*); molten or hot metals, slag (452); metallic minerals (54\*); nonmetallic minerals, except fuel (55\*)

### **940 Scrap, waste, debris, unspecified**

### **941\* Chips, particles, splinters**

#### **9410 Chips, particles, splinters, unspecified**

#### **9411 Dirt particles and dust from dirt, debris**

*Includes:* unspecified dust

*Excludes:* grain dust (5891), coal dust (161), silica dust (558), asbestos dust (551), wood dust, sawdust (9414)

#### **9412 Broken glass, glass chips, or fibers**

This code should be used if a worker is injured when handling broken glass. If a glass breaks and the worker is burned by hot contents of the glass, code the hot liquid as the source and glass as the secondary source. Injuries from glass splinters are also included in this category.

#### **9413 Metal chips, particles**

*Includes:* steel shots (non-ammunition); shrapnel from metal sources other than explosives or bullets; metal splinters

*Excludes:* shrapnel from ammunition or explosive devices (782); scrap metal (945); metal slag (452)

#### **9414 Wood chips, sawdust**

*Includes:* wood chips and particles, wood dust

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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*Includes:* wood splinters (9415)

**9415 Wood splinters**

**9416 Plastic chips, particles**

**9419 Chips, particles, splinters, n.e.c.**

*Broken dishes, excluding glasses*

**942 Sewage**

**943 Construction debris**

**944 Trash, garbage**

**945 Scrap metal**

**949 Scrap, waste, debris, n.e.c.**

*Rubble, except construction*

*Ashes*

*Embers*

*Tree sap, pulp*

*Concrete pieces*

**95\* Other steam, vapors, liquids, ice**

This major group classifies water, steam, water vapor, and other liquids and vapors not elsewhere classified. Cleaning agents and other chemical fluids and vapors are found in Chemicals (1\*).

*Includes:* nonchemical steam, vapors; liquids, water

*Excludes:* rain (9275); water pressure changes occurring during diving (9253); blast of pressurized water (9254); flood (9251); chemicals and chemical products and fumes (Division 1\*)

**950 Steam, vapor, liquids, ice, unspecified**

**951 Steam, vapors—nonchemical**

This code classifies water that is converted into vapor or gas by being heated to the boiling point, and water vapor kept under pressure so as to supply energy for heating, cooking, or mechanical work.

**952\* Liquids—nonchemical**

This source group classifies water with temperature above the freezing point and at or below the boiling point, and liquids not elsewhere classified. If a worker slips and falls due to an unknown liquid or the narrative states “wet floor,” code 9520, liquids, unspecified. If the liquid is known, such as a fall on spilt juice, code the liquid, beverages (5224).

**9520 Liquids, unspecified**

\*-Asterisks denote a summary level code not assigned to individual cases.

## SOURCE

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### 9521 Water

*Excludes:* rain (9275); water pressure changes occurring during diving (9253); blast of pressurized water (9254); flood (9251)

### 9529 Liquids, n.e.c.

*Excludes:* soups, sauces, gravies (5222); cooking fats, oils (5221); beverages (5224); other food products (5229); cleaning products (183); mud (555); bodily fluids (578\*); motor oil (164\*); natural bodies of water (673\*); pools (633); chemicals (1\*)

### 953 Ice—blocks, cubes, crushed

*Includes:* ice cubes, block of ice, crushed ice, ice on freezer floor

*Excludes:* ice on road or sidewalk (9273), icicle (9273)

### 959 Steam, vapor, liquids, ice, n.e.c.

### 99 Source, n.e.c.

This code is used for sources not classified elsewhere in the source code structure. This code is also used for multiple objects or substances that are not in the same division, but only if the two objects or substances equally contribute to producing the injury.

*Cigarettes*

*Contact lenses*

### 9999 Nonclassifiable

Use this code when the source as defined by the rules of selection is not known. This code is generally not used for secondary source.

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