

## APPENDIX M

### 100 CHEMICAL SUBSTANCES WITH HIGHEST ANNUAL USAGE RATE (GALLONS)

The usage rate described the amount of each chemical that was used in gallons during the previous 12 months before the NOHSM survey was conducted at the mine. The data in Appendices M and N are mutually exclusive from each other, with some exceptions which are noted with asterisks (\*).

\*NOTE: Chemical also occurs in Appendix N — 100 CHEMICAL SUBSTANCES WITH HIGHEST USAGE RATE (POUNDS).

CHEMICAL NAME	TOTAL VOLUME
*Natural Gas	172,968,803,734,288
Methane	2,078,517,366
*Acetylene	1,174,357,859
Diesel Fuel No. 2	760,940,728
Nitrogen	228,506,181
95% Argon 5% Oxygen	131,690,141
Phosphorus Yellow	63,000,000
Gasoline, Unleaded	37,273,612
Diesel Fuel No. 1	34,479,188
Gasoline, Leaded	30,422,519
Argon	19,874,342
Diesel Fuel No. 6	17,457,797
*Propane	13,542,728
75% Argon 25% Carbon Dioxide	12,105,599
*Hydrogen	11,608,094
*Diesel Fuel No. 5	10,855,195
Waste Fuel	9,948,564
Diesel, Fuel NEC	9,091,754
*Ammonia	7,396,426
Gasoline	6,244,109
*Sulfuric Acid	4,888,132
Liquid Petroleum Gas	4,336,297
#5 Fuel Oil (Reclaim)	4,011,259
*Sodium Hydroxide	3,592,569
Methyl Acetylene-Propadiene Mixture	3,537,100
Diesel Fuel No. 4	3,506,041
*Carbon Dioxide	3,498,558
Kerosene	3,379,431
*Sodium Hydrosulfite	2,195,751
Nitrous Oxide	1,438,576
*Hydrogen Chloride	1,275,638
*Silicic Acid, Disodium Salt	988,108
*Calcium Chloride	723,508
Propylene	548,447
Lignin Sulfite	510,551
Mercury	500,303
Stoddard Solvent	430,291
Ligninsulfonate	401,920
*Chlorine	387,250
Butane	379,108
Burner Fuel	355,466
Magnesium Hydroxide	355,007
Sodium Dimethylnaphthalene Sulfonate	344,935
Helium	315,927
Sulfuric Acid, Monoammonium Salt	283,872
Waste Oil	108,645
Methyl Alcohol	108,315
Magnesium Chloride	81,453
Phosphoric Acid	80,270
Argon 90% Methane 10%	68,923
*Nitric Acid	60,168
Bunker Oil	50,000
Methyl Chloroform	34,593

**APPENDIX M (CONT.)**

<b>CHEMICAL NAME</b>	<b>TOTAL VOLUME</b>
Naphtha, Coal Tar	34,482
Methane, Chlorodifluoro-	34,042
2-Butanone	32,452
Mineral Oil	31,897
Xylene	28,947
Ethylene Glycol	27,360
Diesel No. 2-70%, Kerosene 30%	23,145
Carbon Monoxide	21,497
Hypochlorous Acid, Sodium Salt	20,330
Hydrogen Peroxide	18,904
*Tetrachloroethylene	12,019
Guar Gum	10,398
Diesel Fuel No. 3	10,200
Isopropyl Alcohol	9,507
Argon 75% Helium 25%	8,079
Tallow Amine	7,500
Ethanol	5,004
Diesel Fuel Blend No. 1 And No. 2	5,000
Pine Oil	4,001
Acetic Acid	3,880
Hydrogren Fluoride	3,266
Petroleum White	2,934
Acetone	2,898
Isobutyl Alcohol	2,887
Denatured Alcohol	2,376
Ammonium Hydroxide	2,367
Toluene	2,339
*P. Glycol	2,000
Glycerine	1,872
Boiled Linseed Oil	1,601
Coal Tar Creosote	1,585
Butyl Alcohol	1,452
*Graphite	1,342
Naphtha Gas	1,100
Reagent Alcohol	1,051
Triaryl Phosphate	990
1,2-Propanol	916
Hexone	898
Methane, Dibromo-	874
Oil, Linseed	823
*Chromic Acid and Chromates	775
Acetylene Tetrabromide	710
Metaquat	666
*Methyl Isobutyl Carbinol	625
Al, Aluminum-MF Unknown	605
Potassium Fluoride	577
Bleach	557

## APPENDIX N

### 100 CHEMICAL SUBSTANCES WITH HIGHEST ANNUAL USAGE RATE (POUNDS)

The usage rate described the amount of each chemical that was used in pounds during the previous 12 months before the NOHSM survey was conducted at the mine. The data in Appendices M and N are mutually exclusive from each other, with some exceptions which are noted with asterisks (\*).

\*NOTE: Chemical also occurs in Appendix M — 100 CHEMICAL SUBSTANCES WITH HIGHEST ANNUAL USAGE RATE (GALLONS).

CHEMICAL NAME	TOTAL MASS
Coal	31,596,029,962
Limestone	7,336,988,786
Gypsum	6,689,097,281
Carbonic Acid, Sodium Salt, Monohydrate	2,600,000,028
Carbonic Acid, Sodium Salt (2:3)	2,521,057,195
Alundum	2,416,323,397
Coke	2,369,128,057
Calcium Oxide	2,300,966,324
Glycol Alkaldamine Acetate	1,291,890,214
Silica, Crystalline	1,251,368,386
Coke (Petroleum)	1,173,207,404
Kaolin	1,036,934,250
Ammonium Nitrate	565,323,850
Magnetite	538,391,828
Iron Oxide (Fe <sub>3</sub> O <sub>4</sub> )	452,046,734
Iron Scale	446,522,106
Calcium Hydroxide	433,408,885
Iron Ore	373,109,638
Aluminum Hydroxide (Al (OH) <sub>3</sub> )	358,630,019
Gypsum-Anhydrite Rock	297,754,507
Magnesite	291,718,821
Sodium Phosphate, Primary	240,000,009
*Sulfuric Acid	220,659,158
Bentonite	215,333,732
Shale	203,883,281
Sodium Oxide	203,797,747
Coal Ash	200,000,000
Fe, Iron	189,371,628
Phosphoric Acid, Disodium Salt	189,000,033
Phosphorus Oxide (P <sub>2</sub> O <sub>5</sub> )	143,800,010
Slag	134,861,104
Boron Tribromide	132,000,000
*Sodium Hydroxide	131,366,699
*Hydrogen Chloride	120,764,663
*Chlorine	83,932,375
Carbonic Acid Disodium Salt	76,177,594
Soapstone	54,113,182
*Silicic Acid, Disodium Salt	53,108,354
*Natural Gas	45,215,260
Sodium Cyanide	45,092,950
Aluminum Calcium Oxide	41,280,000
Pyrites	38,400,000
Bauxite	37,611,835
Portland Cement	37,243,329
Chalcopyrite	24,000,000
*Graphite	23,821,564
Iron Salts, Soluble	20,202,021
Creosote Ties	19,093,079
*Ammonia	13,855,875
Zn, Zinc-MF Unknown	13,533,237
Cement	13,144,898
*Calcium Chloride	12,464,945
Copper Slag	10,833,500

**APPENDIX N (CONT.)**

<b>CHEMICAL NAME</b>	<b>TOTAL MASS</b>
*Hydrogen	10,013,469
Iron Pyrite	9,787,558
Wood Dust (Nonallergenic)	8,706,505
Zinc Sulfate	8,299,015
Coal Tar Pitch Volatiles	7,920,293
*Acetylene	7,543,328
Zinc Solution	7,247,339
Diatomite	6,419,202
Sodium Chloride	5,496,595
*Carbon Dioxide	5,353,140
Calcium Hypochlorite	5,133,776
*Methyl Isobutyl Carbinol	5,118,635
Aluminum Sulfate	3,977,420
Oxalic Acid, Disodium Salt	3,706,116
Hydrogen Sulfide	3,656,279
Calcium Carbonate	3,179,706
Silicic Acid, Aluminum Salt, Hydrate	3,019,847
Pearl Starch	2,970,001
Silicon Carbide	2,796,597
Ferrinox Sic	2,275,511
Masonry Cement, Type N	2,240,422
*Nitric Acid	2,192,182
Titanium Dioxide	2,011,168
Sodium Chlorate	1,989,075
Sodium D-Gluconate	1,980,751
Sulfuric Acid Copper(2+) Salt (1:1)	1,763,178
Sulfur Dioxide	1,743,161
Carbon	1,521,591
Metaphosphoric Acid, Hexasodium Salt	1,416,009
Copper Solution	1,348,800
Sulfur	1,306,252
Starch	1,259,581
*Diesel Fuel No. 5	1,208,471
*Tetrachloroethylene	1,204,819
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	1,203,704
Feldspar	1,151,027
Lead Nitrate	1,145,444
Al, Aluminum-MF Unknown	1,130,773
*Propane	1,104,142
*Sodium Hydrosulfite	1,079,839
Kyanite	1,027,140
Ammonium Chloride	1,000,410
*Chromic Acid and Chromates	993,775
*Propylene Glycol	946,872
Ferrate(4-), Hexacyano-, Tetrasodium	935,038
Sulfuric Acid, Iron(2+) Salt (1:1)	901,988
Carbonic Acid, Dithio, O-Pentyl Ester, Potassium Salt	860,732

## APPENDIX O

### 100 CHEMICAL SUBSTANCES WITH THE HIGHEST PROJECTED NUMBER OF WORKERS POTENTIALLY EXPOSED

This appendix lists the 100 chemical substances with the highest projected number of workers potentially exposed and the standard deviations for these projections. It is beyond the scope of this report to provide the projections and standard deviations for all of the data gathered by NOHSM. However, any parties that are interested in the projections and standard deviations for specific agents of interest should direct their requests to the NOHSM project officer listed in the discussion section IX of this report, or obtain the NOHSM database that is described in the NOHSM database section VI of this report and perform the calculations themselves. The number of workers that were potentially exposed to chemical substances contained in the ore being mined is not reported in this appendix. This appendix only reports those chemical substances which were purchased and then used at the mining facility. Hence, coal miners are not listed as being potentially exposed to coal, asbestos miners are not reported as being potentially exposed to asbestos, and so forth.

\*NOTE: The number of projected workers potentially exposed to these mineral chemicals in this appendix does not include the number of workers employed in the corresponding mineral commodities listed in Appendix P.

CHEMICAL NAME	NUMBER OF PROJECTED WORKERS POTENTIALLY EXPOSED	STANDARD DEVIATION
Diesel Fuel No. 2	109,097	12,945
Acetylene	66,665	9,795
Gasoline, Unleaded	30,811	5,240
Gasoline, Leaded	19,893	4,668
Diesel Fuel No. 1	16,852	6,046
Propane	11,437	2,594
*Coal	11,193	2,010
Kerosene	10,712	2,412
Calcium Chloride	10,513	5,331
*Limestone	8,918	4,268
75% Argon 25% Carbon Dioxide	8,493	5,531
Natural Gas	8,040	1,546
*Gypsum	6,701	1,747
95% Argon 5% Oxygen	5,516	5,423
Sulfuric Acid	4,626	870
Hydrogen Chloride	4,578	407
Sodium Hydroxide	4,567	909
Methyl Chloroform	4,412	3,620
Ammonium Nitrate	4,333	3,553
Stoddard Solvent	4,307	2,275
Calcium Oxide	4,252	1,430
Nitrogen	4,042	2,122
Gasoline	3,901	2,280
Naphtha, Coal Tar	3,227	1,421
Petroleum White	3,110	3,058
Xylene	2,994	2,771
Carbonic Acid Disodium Salt	2,729	542
Magnetite	2,668	1,029
Diesel Fuel, Nec	2,664	1,206
Silica, Crystalline	2,620	981
Aluminum Sulfate	2,527	2,284
Iron Oxide (Fe <sub>3</sub> O <sub>4</sub> )	2,423	1,108
Calcium Hydroxide	2,411	933
Carbon Dioxide	2,054	572

**APPENDIX O (CONT.)**

<b>CHEMICAL NAME</b>	<b>NUMBER OF PROJECTED WORKERS POTENTIALLY EXPOSED</b>	<b>STANDARD DEVIATION</b>
Calcium Sulfate	2,025	1,795
Coke (Petroleum)	1,887	1,068
Ligninsulfonate	1,719	1,690
Argon	1,587	461
Mineral Oil	1,563	763
Coke	1,561	751
Chloroprene	1,558	1,296
Methyl Alcohol	1,504	531
Iron Scale	1,455	843
Carbonic Acid Monosodium Salt	1,454	559
Ammonium Hydroxide	1,452	384
Graphite	1,420	514
*Iron Ore	1,410	753
Nitric Acid	1,245	194
Methyl Acetylene-Propadiene Mixture	1,215	657
Dichlorodifluoromethane	1,178	653
Denatured Alcohol	1,091	585
Carbonic Acid, Dithio, O-Pentyl Ester, Potassium Salt	1,084	912
Fe, Iron	1,079	517
Silicic Acid, Disodium Salt	1,067	686
Acetic Acid	1,066	240
Sodium Cyanide	1,063	210
Methyl Isobutyl Carbinol	1,039	754
Acetone	1,013	235
*Portland Cement	1,002	564
Phenolphthalein	974	184
Liquid Petroleum Gas	956	381
Stearic Acid, Calcium Salt	940	770
Diatomite	900	292
Bauxite	899	524
Tetrachloreethylene	881	618
Cholorine	797	330
Chromic Acid and Chromates	737	171
Barium (Soluble Compounds)	726	165
Phosphoric Acid	723	189
Creosote Ties	716	704
Potassium Iodide	709	159
Methane, Dibromo-	646	593
Silver Nitrate	641	161
Ethanol	639	253
Ammonia	635	227
Tin	594	166
Potassium Nitrate	590	409
Alundum	586	186
Iron Salts, Soluble	576	344
Magnesium Chloride	574	474
Sulfuric Acid, Cobalt(2+) Salt (1:1)	552	340
Glycerine	539	154
Calcoi, Fluoride	534	402
Potassium Permanganate	529	160
Isopropyl Alcohol	508	160
Sodium Oxide	499	408
Coal Tar Pitch Volatiles	494	340
Mg, Magnesium-MF Unknown	492	401
Al, Aluminum-MF Unknown	487	401
Bentonite	478	288
Hydrogen Fluoride	478	147
Copper Slag	462	0
Sodium Chloride	462	101

**APPENDIX O (CONT.)**

<b>CHEMICAL NAME</b>	<b>NUMBER OF PROJECTED WORKERS POTENTIALLY EXPOSED</b>	<b>STANDARD DEVIATION</b>
Sulfamic Acid	458	259
Diesel Fuel No. 6	456	281
Boric Acid	442	103
Ammonium Chloride	433	146
Zn, Zinc-MF Unknown	433	144
*Asbestos	429	193
Magnesite	421	400

**APPENDIX P**  
**NUMBER OF WORKERS EMPLOYED IN EACH COMMODITY**  
**AT THE TIME THE NOHSM SURVEY WAS CONDUCTED**

<b>COMMODITY</b>	<b>WORKERS EMPLOYED-SURVEY</b>
Aluminum	3,801
Anthracite Coal	2,299
Aplite	32
Asbestos	444
Barite	429
Beryl	121
Bituminous Coal	133,079
Boron Minerals	1,344
Cement	7,404
Clay	10,055
Copper	10,517
Feldspar	392
Fluorspar	137
Gemstones	80
Gilsonite	142
Gold	4,290
Granite (Crushed & Broken)	5,322
Granite (Dimension)	1,005
Gypsum	1,170
Iron Ore	4,245
Kyanite	113
Lead/Zinc	1,869
Leonardite	52
Lime	2,949
Limestone (Crushed & Broken)	32,769
Limestone (Dimension)	571
Lithium	170
Magnesite	157
Manganese	102
Marble (Crushed & Broken)	467
Marble (Dimension)	98
Mercury	59
Metal Ores, NEC	35
Mica	340
Molybdenum	835
Nonmetallic Minerals, NEC	2,546
Oil Shale	155
Perlite	244
Phosphate Rock	5,463
Pigment Minerals	29
Platinum Group	372
Potash	1,712
Pumice	143
Pyrites	13
Rare Earths	218
Salt (Evaporated)	330
Salt (Rock)	1,768
Sand and Gravel	16,782
Sandstone (Crushed & Broken)	2,278
Sandstone (Dimension)	338
Shale (Common)	620
Silver	2,739
Slate (Crushed & Broken)	206
Slate (Dimension)	373
Sodium Compounds	2,256
Stone, Crushed & Broken, NEC	2,031
Stone, Dimension, NEC	111
Talc, Soapstone & Pyrophyllite	830
Titanium	374
Traprock (Crushed & Broken)	2,518
Trona	749



**APPENDIX P (CONT.)**

<b>COMMODITY</b>	<b>WORKERS EMPLOYED-SURVEY</b>
Uranium	1,179
Uranium - Vanadium Ores	45
Vanadium	229
Vermiculite	277
Zircon	29

**APPENDIX Q**  
**100 TRADE NAME PRODUCTS WITH THE HIGHEST PROJECTED NUMBER OF**  
**WORKERS POTENTIALLY EXPOSED**

<b>TRADE NAME PRODUCT</b>	<b>MANUFACTURER OR DISTRIBUTOR</b>	<b>NUMBER OF PROJECTED WORKERS POTENTIALLY EXPOSED</b>
Coal Mine Rock Dust	White's Stone Co.	33,024
WD-40 Item 42110 (Aerosol)	The WD-40 Company	22,866
Atom Arc Type 7018	Chemtron Corp.	12,919
Lan-Lin Hand Cleaner Part No. M10-75	Radiator Chemical Corp.	11,396
Hydraulic Fluid 100A ISO VG 100	Century Hulburt, Inc.	11,207
Permatex Form-A-Gasket No. 2 Sealant, #80011	Loctite Corp.	11,126
Lincoln Jetweld LH-70 Electrode, E7018, 7016	Lincoln Electric Co.	10,880
Texaco Multifak EP-2	Texaco Incorporated	10,399
Texaco ATF Dexron Two	Texaco Incorporated	9,770
Hobart 718 LMP Class E7018 Stock No. S116051-35 Prod. No. 90379E	Hobart Brothers Company	9,610
447A Covered Electrodes E6013	Hobart Brothers Company	9,549
Arcair Copperclad Pointed Electrodes Type D.C. Cat. No. 22 033 003	Air Products & Chemicals, Inc.	9,410
Whisk Bio-degradable Waterless Hand Cleaner Stock No. U2WW White	The Metalife Company	8,224
CRC Electrical Grade Lectra Clean, #02018 (Aerosol)	CRC Chemical Inc.	8,180
Safety-Kleen 105/140 Solvent-Combustible Liquid UN1255	Safety Clean Corp.	8,096
Super Prime Pentolite 12-25	International Minerals & Chemical Corporation	7,905
Linde Gouging Electrodes DC. CC. 1/4" X 12" Part No. 7012F04	Sierra Welding Supply Co.	7,840
Gulf Crown Grease EP 2	Gulf Oil Corp.	7,316
Nonel Primadet	Ensign-Bickford Co.	7,164
Rainbow Anti-Fog And Lens Cleaner	Lensclean Inc.	7,136
Conoco Super-Sta Grease Stock No. 9030	Conoco, Inc.	7,084

**APPENDIX Q (CONT.)**

<b>TRADE NAME PRODUCT</b>	<b>MANUFACTURER OR DISTRIBUTOR</b>	<b>NUMBER OF PROJECTED WORKERS POTENTIALLY EXPOSED</b>
CRC Electrical Grade 2-26, #02005 (AEROSOL)	CRC Chemical Inc.	6,742
HA 30 Sand	Woodstock Trucking Company	6,514
Shopcoat Primer Red Oxide E6 1RC21	The Sherwin-Williams Company	6,397
Waterless Hand Cleaner 602	Safety Clean Corp.	6,255
Union Special #68 Hydraulic Oil	Union Oil Co. Of California	6,239
Exxon Spartan EP 320	Exxon Corp.	6,227
Copperclad	Air Products & Chemicals, Inc.	6,227
Linde Union Carbide Linde Hi-Dep Alloy 82 AWS/ASME-SFA5.18 ER70S-3	Union Carbide Corporation	6,156
Oil-Dri All Purpose Absorbent	Oil-Dri Corp. Of America	6,150
Texaco Meropa 220 Code 2321	Texaco Incorporated	6,126
Atom-Arc 8018 Electrodes Class E-8018-C3	Chemtron Corp.	6,109
Brill*Tex Spec. GP 27 A24R 7*	Federal-Mogul Corp.	6,047
Low Silica Mine Safety Dust	E. Dillon and Company	6,045
Weld-Aid Nozzle-Kleen Number 2 Anti-Spatter Spray Non-Silicone Stock No.007022 (Aerosol)	Weld-Aid Products, Inc.	6,023
Atom-Arc 8018N AWS Class E-8018-C2 HT L81129 LOT D425C4AF	Chemtron Corp.	5,944
Permatex Anti-Seize Lubricant Part No. 133K Item No. 80078	Loctite Corp.	5,934
Jetweld LH-70 7018	Lincoln Electric Co.	5,907
Fleetweld 35 Electrodes E6011	Lincoln Electric Co.	5,905
Atom Arc 9018 Electrodes	Chemtron Corp.	5,757
Texaco Marfak Multi Purpose 2	Texaco Incorporated	5,740
Lincoln Fleetweld 5P Electrode, E6010	Lincoln Electric Co.	5,735
Certanium 889 Machinable Cast Iron Maintenance Electrode	Certanium Alloys & Research Co.	5,682
Conoco Fleet 30W Motor Oil	Conoco, Inc.	5,627

**APPENDIX Q (CONT.)**

<b>TRADE NAME PRODUCT</b>	<b>MANUFACTURER OR DISTRIBUTOR</b>	<b>NUMBER OF PROJECTED WORKERS POTENTIALLY EXPOSED</b>
CRC Electrical/Electronic Grade CO Contact Cleaner Precision Cleaner Solvent No. 02016 (Aerosol)	CRC Chemical Inc.	5,597
Lube-Matic Welding Wire Lubricant & Cleaner Part No. 007040	Weld-Aid Products, Inc.	5,585
Type SW Welding Electrodes E6013	Westinghouse Electric Corp.	5,533
Nozzle-Dip Gel Anti-Spatter Gel 007094	Weld-Aid Products, Inc.	5,526
Chevron Dura-Lith Grease EP-2	Chevron U.S.A., Inc.	5,523
Certanium 705 Electrode	Certanium Alloys & Research Co.	5,521
Cincinnati Milacron Grinding Wheel Spec. 5C461-K6-VSC 1P-287A 94179-1QC	Cincinnati Milacron Co.	5,516
Dual Shield Continuous Flux Cored Electrode Type Coreweld 70 E70T-1 STK. NO. 24-341002-4	Chemtron Corp.	5,516
Atom Arc Type 9018CM Class E9018-B3	Chemtron Corp.	5,516
Conoco EP Conolith Grease No. 1	Conoco, Inc.	5,433
Nickel Anti-Seize Lubricant Part No. 80755	Loctite Corp.	5,343
Bay State Abrasives Dresser Readymount Scotsman 9"X1/4" SCT 110R 7H827743B	Augusta Tool & Specialty Co.	5,322
SBS 30 Waterless Skin Cleaner	SBS Products, Inc.	5,300
Mistic Metal Mover A Cutting Fluid And Penetrant	Mistic Metal Mover, Inc.	5,288
M30 With The Hand Cream Base Stock # 0-4004	Martin Laboratories, Inc.	5,283
Grind-O-Flex Flapper Discs ALO Resin Grit 120 CCN 521002	Merit Abrasive Products, Inc.	5,223
Anti-Seize Lubricant Part No. 80209	Loctite Corp.	5,164
Thermatex EP 2	Mobil Oil Corp.	5,050
Lincoln Fleetweld 37 Electrodes, E6013	Lincoln Electric Co.	4,933
7M7260 Liquid Gasket Material	Caterpillar Tractor Co.	4,933

**APPENDIX Q (CONT.)**

<b>TRADE NAME PRODUCT</b>	<b>MANUFACTURER OR DISTRIBUTOR</b>	<b>NUMBER OF PROJECTED WORKERS POTENTIALLY EXPOSED</b>
Liquid Wrench Part No. L1-12 (Aerosol)	Radiator Chemical Corp.	4,933
Exxon Lidok EP 2	Exxon Corp.	4,787
Ursa Super Plus Sae 30 Product Code 2112	Texaco Incorporated	4,662
Heavy Duty Equipment Cleaner	East Kentucky Chemical, Inc.	4,620
Gopher Grinding Disc Grade A24GP	Ansari Abrasive Manufacturing	4,607
Wagner Dot 3 Motor Vehicle Brake Fluid 21B	McGraw-Edison Co.	4,585
Fas Loc Resin Cartridges 441 0B 0305	E.I. Du Pont De Nemours & Co. (Inc.)	4,580
Rock Dust	Abshire Trucking Co.	4,537
Super Hydraulic Oil 68 Product Code 7450	Conoco, Inc.	4,506
Dowtherm 209 Coolant	The Dow Chemical Company And Subsidiaries	4,420
Go-Jo Hand Cleaner Creme Type Stock No. 1111	Go Jo Industries, Inc.	4,350
Quintolubric 822 220 Fire Resistant Hydraulic Fluid	Quaker Chemical Corp.	4,309
Wick Climb	B & B Chemical Co., Inc.	4,176
Moreplex Moly NLGI 2 Lubricating Grease	Century Hulburt, Inc.	4,153
Caterpillar Cement, #5H2471	Caterpillar Tractor Co.	4,129
Molub-Alloy 936 Light Open Gear Compound	Imperial Oil & Grease Company, Inc.	4,120
Safety-Kleen Parts Cleaner 105/140	Safety Clean Corp.	4,092
Spartan EP 680 5376	Exxon Corp.	4,032
Unocal Unoba EP Grease 2	Union Oil Co. Of California	4,027
DCL 2 SAE 30 CD/SF Diesel Engine Oil	Century Hulburt, Inc.	4,022
Lubricating Grease 1643 20	Century Hulburt, Inc.	3,991
Century Oils Moreplex 2 Lubricating Grease	Century Hulburt, Inc.	3,930

**APPENDIX Q (CONT.)**

<b>TRADE NAME PRODUCT</b>	<b>MANUFACTURER OR DISTRIBUTOR</b>	<b>NUMBER OF PROJECTED WORKERS POTENTIALLY EXPOSED</b>
Solder Seal/Gunk Dot 3 Super Heavy Duty Brake Fluid, #M44-34	Radiator Chemical Corp.	3,879
Diesel Fuel No. 2 (Winter Blend With 5% Kerosine)	Ashland Oil Co., Inc.	3,837
Chevron Ultra-Duty Grease 2	Chevron U.S.A., Inc.	3,814
Unoba EP-2 Grease	Union Oil Co. Of California	3,786
No. FDD1455 Dustallay	Wen-Don Corp.	3,775
Plasti-Cote Super Enamel Spray Paint T-9 Yellow	Plasti-Kote Co., Inc.	3,710
Rockdust	Benwood Limestone	3,707
Dixon Railroad Crayon 888 Red	Dixon Ticonderoga Co.	3,698
Mobil Delvac 1230 Motor Oil SAE 30	Mobil Oil Corp.	3,696
Conoco Automatic Transmission Fluid Type F	Conoco, Inc.	3,689
Unax Sped. Hyd. 315	Union Oil Co. of California	3,687
Three-M-Ite Elek-Tro-Cut Cloth Utility Roll	3M Company	3,661
Dupont Tovex Water Gel Blasting Agent, N.O.S.	E.I. Du Pont De Nemours & Co. (Inc.)	3,660
Jesco Lubricants DS-OG-WC-0 Summer 10	Jesco Lubricants, Co., Inc.	3,634

**APPENDIX R**  
**100 PRODUCT USE TERMS (PUTs) WITH THE HIGHEST PROJECTED NUMBER OF**  
**WORKERS POTENTIALLY EXPOSED**

<b>PRODUCT USE TERM</b>	<b>NUMBER OF PROJECTED WORKERS POTENTIALLY EXPOSED</b>
Fuel	165,178
Grease	113,470
Cleaner, Hand	89,357
Oil, Hydraulic	87,291
Oil, Motor	78,640
Welding Rod	65,903
Lubricant, NEC	60,571
Solvent	56,131
Penetrant	55,840
Compound, Dust Control	48,855
Cleaner, Glass	40,691
Paint	39,742
Oil, Gear	39,331
Fluid, Transmission	38,239
Abrasive, Grinding	37,020
Sealant	28,837
Fluid, Brake	26,537
Shielding Gas	24,446
Absorbent	24,350
Fluid, Starting NEC	21,941
Lubricant, Gear	21,588
Cleaner, Electrical Contact	20,434
Compound, Anti-Seize	20,352
Adhesive	20,204
Remover, Grease	20,142
Antifreeze, Radiator	18,510
Primer	18,493
Explosive, Detonator NEC	18,335
Oil, NEC	16,749
Welding, Wire	16,320
Cleaner, NEC	15,046
Explosive, Lead Lines	12,784
Gouging Electrode	11,896
Fire Retardant	11,852
Explosive, Detonator Code	11,752
Agent, Blasting	11,745
Fluid, Hydraulic	11,666
Fluid, Cutting	10,738
Antifreeze, NEC	10,727
Cleaner, Metal	10,459
Cutting Rod	10,274
Additive, NEC	9,990
Agent, Anti-Splattering	9,692
Additive Fuel	9,631
Sand	9,325
Thinner	8,815
Abrasive, Blasting	8,763
Lubricant, Open Gear	8,708
Cement, NEC	8,420
Gasket, Liquid	8,227
Chalk	8,060

**APPENDIX R (CONT.)**

<b>PRODUCT USE TERM</b>	<b>NUMBER OF PROJECTED WORKERS POTENTIALLY EXPOSED</b>
Oil, Cutting	7,857
Oil, Lube	7,832
Belt Dressing	7,603
Antifreeze, Airline	7,409
Sand Paper	7,272
Cleaner, General	6,573
Compound, Gasket	6,451
Compound, Water Treatment	6,356
Resin	6,073
Chemical, NEC	6,045
Gasket Material	5,930
Explosive, Boosters	5,780
Brazing Rod	5,536
Compound, Packing	5,320
Additive, Chemical Process	5,199
Emulsifier	5,192
Flocculant	5,074
Compound, Pipe Thread	5,055
Oil, Compressor	4,835
Cement, Masonry	4,795
Agent, Wetting	4,778
Remover, Moisture	4,549
Deicer	4,412
Compound, Sweeping	4,350
Plaster	4,279
Brake Equipment	4,230
Reagent, Flotation	4,130
Coolant	3,984
Compound, Steam Cleaning	3,954
Oil, Penetrating	3,787
Repellent, Insect	3,696
Remover, Gasket	3,602
Frother	3,564
Insulation	3,488
Raw Material	3,430
Soldering Rod	3,388
Antifreeze, Windshield	3,318
Brush, Wire	3,273
Cleaner, Floor	3,266
Fluid, Torque	3,239
Lubricant, Cable	3,189
Filler, NEC	3,180
Fluid, Layout	3,089
Inhibitor	3,039
Wood	2,986
Pip	2,985
Cleaner, Automotive	2,905
Indicator	2,769
Cutting Wheel	2,735