



Material Safety Data Sheet

Catalog Number: 151837
Revision date: 26-Apr-2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 151837

Product name: PHENYLHYDRAZINE FREE BASE

Synonyms: Hydrazinobenzene

Supplier:

MP Biomedicals, LLC
29525 Fountain Parkway
Solon, OH 44139
tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA Exposure Limits:
PHENYLHYDRAZINE FREE BASE	100-63-0	90 - 100%	0.1 ppm TWA	5 ppm TWA; 22 mg/m ³ TWA

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Combustible material, Harmful to flora, fauna, soil organisms and aquatic organisms., May cause sensitization by skin contact, Toxic: danger of very serious irreversible effects if swallowed. May also have serious irreversible effects through skin contact or inhalation.

Category of Danger:

Toxic , Dangerous for the environment , Skin Sensitizer , Carc. cat. 3

Principle routes of exposure: Skin

Inhalation: Harmful: possible risk of irreversible effects through inhalation.

Ingestion: Toxic: danger of very serious irreversible effects if swallowed.

Skin contact: May cause allergic skin reaction

Harmful: danger of serious damage to health by prolonged skin contact.

Eye contact: Risk of serious damage to eyes

ANSI Classification Sensitizer - skin

Statements of hazard COMBUSTIBLE MATERIAL AND VAPOR.

MAY CAUSE ALLERGIC SKIN REACTION.

Toxic if swallowed

Statement of Spill or Leak - ANSI Label Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment.

Statement of First Aid If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call a physician. In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes.

Precautions - ANSI Label Do not taste or swallow. Wash thoroughly after handling. Keep away from heat, sparks and flame. Keep containers closed. Use only with adequate ventilation. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not breathe vapors or spray mist Avoid breathing vapors. Avoid contact with skin, eyes and clothing Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation: Move to fresh air. Call a physician immediately.

Skin contact: Rinse immediately with plenty of water for at least 15 minutes Wash off immediately with soap and plenty of water Consult a physician if necessary

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician Drink 1 or 2 glasses of water. Induce vomiting, but only if victim is fully conscious. Induce vomiting if person is conscious. If swallowed, seek medical advice immediately and show this container or label.

Eye contact: Flush eye(s) immediately with plenty of water. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Protection of first-aiders: No information available

Medical conditions aggravated by exposure: None known

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Use water spray (fog), foam, dry chemical or CO₂.

Extinguishing media which must not be used for safety reasons:

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards:

combustible material Flammable

Unusual hazards:

None known

Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Specific methods:

Water mist may be used to cool closed containers.

Flash point:

88.8°C

Autoignition temperature:

Not determined

NFPA rating:

NFPA Health:	3
NFPA Flammability:	2
NFPA Reactivity:	0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Remove all sources of ignition. Use personal protective equipment.

Environmental precautions:

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up:

Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Storage:

ROOM TEMPERATURE
DESICCATE
PROTECT FROM LIGHT

Handling:

Use only in area provided with appropriate exhaust ventilation.

Safe handling advice:

Wear personal protective equipment. Remove and wash contaminated clothing before reuse.

Technical measures/storage conditions:

Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat and sources of ignition. Keep container tightly closed in a dry and well-ventilated place. Oxidising and spontaneously flammable products

Incompatible products:

Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation, especially in confined areas.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: Breathing apparatus only if aerosol or dust is formed.

Hand protection: Pvc or other plastic material gloves

Skin and body protection: Impervious clothing Long sleeved clothing

Eye protection: Safety glasses with side-shields

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor

Colorless crystals or oil; turns yellow to dark red on exposure to air and light

Physical state:

Liquid

Formula:

C₆H₈N₂

Molecular weight:

108.14

Melting point/range:

19.5 °C

Boiling point/range:

243 °C (with decomposition)

Density:

1.10 at 20 °C (water = 1)

Vapor pressure:

<0.1 mm Hg at 30 °C

Evaporation rate:

No data available

Vapor density:

3.70 (air = 1)

Solubility (in water):

Slightly soluble

Flash point:

88.8°C

Autoignition temperature:

Not determined

10. STABILITY AND REACTIVITY

Stability:

Stable under recommended storage conditions.

Polymerization:

None under normal processing.

Hazardous decomposition products:

Nitrogen oxides (NO_x)/ammonia/CN-

Materials to avoid:

-

Strong oxidizers, lead dioxide

Conditions to avoid:

Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information**Acute toxicity****Components**

PHENYLHYDRAZINE FREE BASE

RTECS Number:

MV8925000

Selected LD50s and LC50s

Inhalation LC50 Rat : 2610 mg/m³

Inhalation LC50 Mouse : 2120 mg/m³

Oral LD50 Rat : 188 mg/kg

Oral LD50 Mouse : 175 mg/kg

Chronic toxicity:	Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.
Local effects:	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Specific effects:	May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.
Primary irritation:	No data is available on the product itself.
Carcinogenic effects:	Possible carcinogen
Mutagenic effects:	No data is available on the product itself.
Reproductive toxicity:	No data is available on the product itself.

Components

PHENYLHYDRAZINE FREE BASE

NIOSH - Health Effects**NIOSH - Target Organs**

blood, respiratory system, liver, kidneys, skin
(in animals: tumors of the lungs, liver, blood vessels and intestines)

12. ECOLOGICAL INFORMATION

Mobility:	No data available
Bioaccumulation:	No data available
Ecotoxicity effects:	No data available
Aquatic toxicity:	May cause long-term adverse effects in the aquatic environment.

Components	U.S. DOT - Appendix B - Marine Pollutan	U.S. DOT - Appendix B - Severe Marine Pollutants	United Kingdom - The Red List:
PHENYLHYDRAZINE FREE BASE	Not Listed	Not Listed	Not Listed
Components	Germany VCI (WGK)	World Health Organization (WHO) - Drinking Water	Ecotoxicity - Fish Species Data
PHENYLHYDRAZINE FREE BASE	Not Listed	Not Listed	Not Listed
Components	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data	Ecotoxicity - Water Flea Data
PHENYLHYDRAZINE FREE BASE	Not Listed	Not Listed	Not Listed
Components	EPA - ATSDR Priority List	EPA - HPV Challenge Program Chemical List	California - Priority Toxic Pollutants
PHENYLHYDRAZINE FREE BASE	Not Listed	Not Listed	Not Listed
Components	California - Priority Toxic Pollutants	California - Priority Toxic Pollutants	
PHENYLHYDRAZINE FREE BASE	Not Listed	Not Listed	

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:	Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.
Contaminated packaging:	Do not re-use empty containers
Methods for cleaning up:	Soak up with inert absorbent material.

14. TRANSPORT INFORMATION

UN/Id No: 2572

DOT:

Proper shipping name: Phenylhydrazine
 IATA Hazard Label(s): Toxic
 Hazard Class: 6.1 - Toxic substances - oral
 Packing group: II

Emergency Response Guide Number (ERG): 153

Components U.S. DOT - Appendix A Table 1 - Reportable Quantities
 PHENYLHYDRAZINE FREE BASE Not Listed

TDG (Canada):

WHMIS hazard class: B3 combustible liquids
 D1b toxic materials
 D2a very toxic materials



IMDG/IMO

Proper shipping name: Phenylhydrazine

IMDG - Hazard Classifications: IMDG class or division = 6.1
 IMDG - Regulated Substances: UN2572

Components U.S. DOT - Appendix B - Marine Pollutant U.S. DOT - Appendix B - Severe Marine Pollutants
 PHENYLHYDRAZINE FREE BASE Not Listed Not Listed

IMO-labels:

15. REGULATORY INFORMATION

International Inventories

Components
 PHENYLHYDRAZINE FREE BASE
 Inventory - United States TSCA - Sect. 8(b) Present
 Canada DSL Inventory List - Present
 Australia (AICS): Present
 Inventory - China: Present
 EU EINECS List - 202-873-5; C6H8N2
 Inventory - Japan: 3-470
 Korean KECL: KE-28379
 Philippines PICCS: Present

U.S. regulations:

Components	California Proposition 65	Massachusetts Right to Know List:	New Jersey Right to Know List:	Pennsylvania Right to Know List:
PHENYLHYDRAZINE FREE BASE	- carcinogen; initial date 7/1/92	[present]	sn 1500	[present]

Components	Florida substance List:	Rhode Island Right to Know List:	Illinois - Toxic Air Contaminants	Connecticut - Hazardous Air Pollutants
PHENYLHYDRAZINE FREE BASE	[present]	Toxic	[present]	200 ug/m ³ HLV; 0.05 ppmv HLV; also listed as Hydrazinobenzene (400 ug/m ³ HLV; 0.1 ppmv HLV)

Components	SARA 313 Emission reporting/Toxic Release of Chemicals	CERCLA/SARA - Section 302 Extremely Haz	NTP:	IARC:
PHENYLHYDRAZINE FREE BASE	Not Listed	Not Listed	None	None

SARA 313 Notification: The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of 1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).

State Notification: The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.

16. OTHER INFORMATION

Prepared by: Health & Safety

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End of Safety Data Sheet