

SAFETY DATA SHEET

Creation Date 17-February-2015

Revision Date 25-May-2017

Revision Number 3

1. Identification

Product Name

Phenylhydrazine hydrochloride

Cat No.:

AC151550000; AC151550050; AC151551000; AC151555000

Synonyms

Phenylhydrazinium Chloride

Recommended Use Uses advised against Laboratory chemicals.

Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Importer/Distributor Fisher Scientific 112 Colonnade Road,

Ottawa, ON K2E 7L6, Canada

Tel: 1-800-234-7437

Acros Organics One Reagent Lane

Fair Lawn, NJ 07410

Manufacturer

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Number

For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887

2. Hazard(s) identification

Classification

WHMIS 2015 Classification

Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Category 3 Acute oral toxicity Acute dermal toxicity Category 3 Category 3 Acute Inhalation Toxicity Category 2 Skin Corrosion/irritation Serious Eye Damage/Eye Irritation Category 2 Category 1 Skin Sensitization Germ Cell Mutagenicity Category 2 Category 2 Carcinogenicity Specific target organ toxicity - (repeated exposure) Category 1 Target Organs - Liver, Kidney, Blood.

Label Elements

Signal Word

Danger

Hazard Statements

Toxic if swallowed, in contact with skin or if inhaled

Causes skin irritation

May cause an allergic skin reaction
Causes serious eye irritation
Suspected of causing genetic defects
Suspected of causing cancer
Causes damage to organs through prolonged or repeated exposure



Precautionary Statements

Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Do not breathe dust/fumes/gas/mist/vapours/spray

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves/protective clothing/eye protection/face protection

Response

IF SWALLOWED: Immediately call a POISON CENTER/doctor

IF ON SKIN: Wash with plenty of soap and water

IF INHALED: Remove person to fresh air and keep comfortable for breathing

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

IF exposed or concerned: Get medical advice/attention

Call a POISON CENTER/ doctor

Rinse mouth

Take off immediately all contaminated clothing

Wash contaminated clothing before reuse

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Very toxic to aquatic organisms

Light sensitive

3. Composition / information on ingredients

Component	CAS-No	Weight %			
Phenylhydrazine hydrochloride	59-88-1	>95			

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Immediate medical attention is required.

Inhalation Move to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the

substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. If

not breathing, give artificial respiration.

Do not induce vomiting. Call a physician or Poison Control Center immediately. Ingestion

May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, Most important symptoms/effects

swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest

pain, muscle pain or flushing

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media

No information available

Flash Point Method -

Not applicable

No information available

Autoignition Temperature

Explosion Limits

Upper No data available No data available Lower

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Combustion Products

Hydrogen chloride gas Nitrogen oxides (NOx) Carbon monoxide (CO) Carbon dioxide (CO2)

Protective Equipment and Precautions for Firefighters

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

NFPA_

Health 3

Flammability

Instability

Physical hazards N/A

6. Accidental release measures

Personal Precautions

Environmental Precautions

Use personal protective equipment. Evacuate personnel to safe areas. Avoid dust formation. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Up

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

7. Handling and storage

Handling

Use only under a chemical fume hood. Wear personal protective equipment. Avoid dust formation. Do not breathe vapors/dust. Do not get in eyes, on skin, or on clothing. Do not ingest. Handle under inert gas, protect from moisture.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

direct sunlight. Store under an inert atmosphere.

8. Exposure controls / personal protection

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

Engineering Measures

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eve Protection Hand Protection Goggles

Protective gloves

Glove material Nitrile rubber Neoprene Natural rubber PVC

Breakthrough time See manufacturers recommendations

Glove comments Glove thickness

Splash protection only

Inspect gloves before use, observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly Recommended Filter type: Particulates filter conforming to EN 143

When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls

Prevent product from entering drains. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

9. Physical and chemical properties

Appearance Odor **Odor Threshold** pН

Physical State

Powder Solid Off-white Odorless No information available

Melting Point/Range

No information available

Boiling Point/Range

250 - 254 °C / 482 - 489.2 °F No information available

Flash Point

Not applicable Not applicable

Evaporation Rate Flammability (solid,gas)

No information available

Flammability or explosive limits

Upper

No data available

Phenylhydrazine hydrochloride

Lower
Vapor Pressure
Vapor Density
Specific Gravity

Solubility

Partition coefficient; n-octanol/water

Autoignition Temperature Decomposition Temperature

Molecular Formula Molecular Weight

Viscosity

No data available No information available

Not applicable

No information available No information available No data available

> 245°C Not applicable C6 H8 N2 . H Cl

144.61

10. Stability and reactivity

Reactive Hazard

Yes

Stability

Light sensitive. Air sensitive.

Conditions to Avoid

Avoid dust formation. Exposure to air. Exposure to light. Incompatible products.

Temperatures above 90°C.

Incompatible Materials

Bases, Strong oxidizing agents

Hazardous Decomposition Products Hydrogen chloride gas, Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide

(CO₂)

Hazardous Polymerization

No information available.

Hazardous Reactions

None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information

Toxicologically Synergistic

No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation

Irritating to eyes and skin

Sensitization

No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Phenylhydrazine	59-88-1	Not listed					
hydrochloride							

Mutagenic Effects

Possible risk of irreversible effects

Reproductive Effects

No information available.

Developmental Effects

No information available.

Teratogenicity

No information available.

STOT - single exposure

None known

STOT - repeated exposure

Liver Kidney Blood

Aspiration hazard

No information available

Symptoms / effects, both acute and Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

delayed

Endocrine Disruptor Information

No information available

Other Adverse Effects

The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

Persistence and Degradability

Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation

No information available.

Mobility

. Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Phenylhydrazine hydrochloride	-2.27

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No

UN2811

Proper Shipping Name Hazard Class

TOXIC SOLIDS, ORGANIC, N.O.S.

Packing Group

6.1 ш

TDG

UN-No

UN2811

Proper Shipping Name

TOXIC SOLIDS, ORGANIC, N.O.S.

Hazard Class

6.1

Packing Group

11

UN-No

UN2811

Proper Shipping Name

TOXIC SOLID, ORGANIC, N.O.S.*

Hazard Class

6.1

Packing Group

IMDG/IMO **UN-No**

UN2811

Proper Shipping Name

TOXIC SOLID, ORGANIC, N.O.S.

Hazard Class Packing Group

II

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	DSL	NDSI	TSCA	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Phenylhydrazine hydrochloride	X	-	X	200-444-7			Х		Х	Х	Х

Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

16. Other information

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Revision Summary

This document has been updated to comply with the requirements of WHMIS 2015 to align

with the Globally Harmonised System (GHS) for the Classification and Labelling of

Chemicals.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS