

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

TCI AMERICA SAFETY DATA SHEET

Product name: Product code:	Phenylhydrazine P0183	
Product use: Restrictions on use:	For laboratory research purposes. Not for drug or household use.	
Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com		Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) Responsible department: TCI America Environmental Health Safety and Security +1- 503-286-7624
2. HAZARD(S) IDENTIFICATION		
OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Acute Toxicity - Oral [Category 3] Acute Toxicity - Dermal [Category 2] Acute Toxicity - Inhalation [Category 3] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A] Sensitization - Skin [Category 1] Germ Cell Mutagenicity [Category 2] Carcinogenicity [Category 1B] Specific Target Organ Toxicity (Single Exposure) [Catego Specific Target Organ Toxicity (Repeated Exposure) [Catego Specific Target Organ Toxicity (Repeated Exposure) [Catego Flammable Liquids [Category 4] Aquatic Hazard (Acute) [Category 1]	
Signal word:	Danger!	
Hazard Statement(s):	Combustible liquid Fatal in contact with skin Toxic if swallowed or if inhaled Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction Suspected of causing genetic defects May cause cause	

Pictogram(s) or Symbol(s):



May cause cancer Very toxic to aquatic life Causes damage to: Blood

Precautionary Statement(s): [Prevention]

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from flames and hot surfaces. – No smoking. Do not breathe mist, vapors or spray. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection.

Causes damage to organs through prolonged or repeated exposure: Blood

If swallowed: Immediately call a poison center or doctor. Rinse mouth. If on skin: Wash with plenty of soap and water. Immediately call a poison center or doctor. Take off immediately all contaminated

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[Storage] [Disposal]	clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. If exposed: Call a poison center or doctor. Collect spillage. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).
Hazards not otherwise classified: [HNOC]	None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	Phenylhydrazine
Percent:	>98.0%(GC)(T)
CAS RN:	100-63-0
Molecular Weight:	108.14
Chemical Formula:	C6H8N2
4. FIRST-AID MEASURES	
Description of first aid measures	
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Immediately call a POISON CENTER or doctor/physician.
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
Symptoms/effects:	
Acute:	Redness.
Delayed:	May cause heritable genetic damage in humans. May cause skin sensitization. Possibly carcinogenic to humans.
ndication of any immediate medical	attention:
lot available.	
Notes to physician:	
lo data available	
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media: Jnsuitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide. Solid streams of water
Specific hazards arising from the chemical: lazardous combustion products: Dther specific hazards:	Explosion risk in case of fire. Fight fire remotely due to the risk of explosion. Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. These products include: Carbon oxides Nitrogen oxides Closed containers may explode from heat of a fire.
Advice for firefighters:	Wear self-contained breathing apparatus if possible. Combat fire from a sheltered position.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions: Methods and materials for containment and cleaning up:	Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned. Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
Prevention of secondary hazards:	Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE	
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Be careful not to cause leakage, overflow, or dispersion. Steam should not be generated unnecessarily. Keep away from heat/sparks/open flame/hot surfacesNo smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Avoid shock and friction. Wash hands and face before breaks and immediately after handling the product. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid all contact!
Conditions for safe storage, including	any incompatibilities
Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store under inert gas. Store locked up. Be sure not to give the container unexpected impacts, such as falling down or falling off. Store away from incompatible materials such as oxidizing agents. Light-sensitive Air-sensitive
Packaging material:	Comply with laws.
8. EXPOSURE CONTROLS / PER	SONAL PROTECTION
Exposure limits: ACGIH TLV(TWA): OSHA PEL(TWA):	0.1 ppm (skin) 5 ppm (skin)
Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.
Personal protective equipment Respiratory protection:	Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national

	regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Yellow Weakly Aromatic No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	19°C (Freezing point) (66°F) No data available No data available 1.10 No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. 3.7 No data available No data available
Flash point: Flammability(solid, gas):	88°C (190°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	174°C (345°F) 1.1% No data available
Solubility(ies): [Water] [Other solvents] Miscible: Very soluble: Soluble: Slightly soluble:	Soluble (837g/L, 24°C) Ether, Alcohols, Benzene, G Acetone Dilute acids, Dilute acetic a Petroleum ether	Chloroform	

10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products: No data available Stable under proper conditions. May explosively decompose on heating, shock, friction, etc. Heat, Open flame, Shock, Friction Oxidizing agents Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

RTECS Number: MV8925000

Acute Toxicity: orl-rat LD50:188 mg/kg ihl-rat LC50:2610 mg/m ³		skn-rbt LDLo:90 mg/kg			
Skin corrosion/irritation: No data available					
Serious eye damage/irritation: No data available					
Respiratory or skin sensitization: No data available					
Germ cell mutagenicity: mmo-esc 39100 ng/plate (-S9) mmo-sat 4600 nmol/plate(+/-S9)		mmo-omi 150 ug/L (-S9)			
Carcinogenicity: scu-rat TDLo:5200 mg/kg/52W-I					
IARC: No data available	NTP:	No data available	OSHA:	No data available	
Reproductive toxicity: ipr-rat TDLo:30 mg/kg (17-19D preg)					
Target organ(s): Causes damage to: Blood Causes damage to organs through pr	olonged or repeated	exposure: Blood			
12. ECOLOGICAL INFORMATION					
Ecotoxicity:					
Fish:	No data available				
Crustacea:	No data available				

Algae:	No data available
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available 2
Log Pow:	1.25
Soil adsorption (Koc):	110
Henry's Law (PaM ³/mol):	2.9 x 10 ⁻³

13. DISPOSAL CONSIDERATIONS

Disposal of product:Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and
Local rules and regulations. Consult an expert of disposal. You may be able to dissolve or mix material
with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner
and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur.
This section is intended to provide assistance but does not replace these laws, nor does compliance in
accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for
Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not
be allowed to enter the environment, drains, water ways, or the soil.Disposal of container:Dispose of as unused product. Do not re-use empty containers.
Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

<u>DOT (US)</u> UN number: UN2572	Proper Shipping Name: Phenylhydrazine	Class or Division: 6.1 Toxic material.	Packing Group: II
IATA UN number: UN2572	Proper Shipping Name: Phenylhydrazine	Class or Division: 6.1 Toxic material.	Packing Group: II
IMDG UN UN2572 numb er:	Proper Shipping Name: Phenylhydrazine	Class or Division: 6.1 Toxic material.	Packing Group: II
EmS number:	F-A, S-A		

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regu	lations			
CERCLA Hazardo	ous substance a	and Reportable Quantity:		
SARA 313:		Not Listed		
SARA 302:		Not Listed		
State Regulations	<u>S</u>			
State Right-to-Kn	ow			
Massachuse	tts	Listed		
New Jersey		Listed		
Pennsylvania	a	Listed		
California Propos	sition 65:	Listed		
Other Information	<u>n</u>			
NFPA Rating:			HMIS Classification	:
Health:	2		Health:	2
Flammability:	2		Flammability:	2
Instability:	0		Physical:	0
International Inve	entories_			
Canada: DSL		On DSL		
EC-No:		202-873-5		

16. OTHER INFORMATION

Revision date: 07/06/2018

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TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.