

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

1. IDENTIFICATION

Product	name:
Product	code:

Product use: **Restrictions on 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

2. HAZARD(S) IDENTIFICATION

2.11AZARD(3) IDENTIFICATION	
OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Acute Toxicity - Oral [Category 4] Acute Toxicity - Dermal [Category 2] Eye Damage/Irritation [Category 1] Flammable Liquids [Category 3] Aquatic Hazard (Acute) [Category 3] Skin Corrosion/Irritation [Category 1B]
Signal word:	Danger!
Hazard Statement(s):	Flammable liquid and vapor Harmful if swallowed Fatal in contact with skin Causes severe skin burns and eye damage Harmful to aquatic life
Pictogram(s) or Symbol(s):	
Precautionary Statement(s): [Prevention]	Keep away from heat, sparks, open flames and hot surfaces. – No smoking. Keep container tightly

closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dusts or mists. Do not get in eyes, on skin, or on clothing. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on

Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40

skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

after handling. Wear protective gloves, protective clothing, face protection.

and easy to do. Continue rinsing. Immediately call a poison center or doctor.

CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Store in a well-ventilated place. Keep cool. Store locked up.

[Response]

[Storage] [Disposal]

Hazards not otherwise classified: [HNOC]

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SAFETY DATA SHEET

1,3-Diaminopropane

For laboratory research purposes.

Not for drug or household use.

D0114

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

None.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	1,3-Diaminopropane
Percent:	>98.0%(GC)
CAS RN:	109-76-2
Molecular Weight:	74.13
Chemical Formula:	
Synonyms:	1,3-Propanediamine, Trimethylenediamine
4. FIRST-AID MEASURES	
Description of first sid measures	
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innalation:	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. Do NOT induce vomiting.
Symptoms/effects:	
Acute:	Pain, Redness,
Delayed:	No data available
Delayed.	
Indication of any immediate medical att	ention:
Not available.	
Notes to physician:	
No data available	
5. FIRE-FIGHTING MEASURES	
3. TIKE-TIOITTING MEASORES	
Suitable extinguishing media:	Dry chemical, foam, water in large amounts, carbon dioxide.
Specific hazards arising from the	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
chemical:	
Hazardous combustion products:	These products include: Carbon oxides Nitrogen oxides
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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 - Very pale yellow Ammoniacal No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density:	-12°C (Freezing point) (10°F) 133°C (271°F) No data available 0.89	pH: Vapour pressure: Vapour density: Dynamic Viscosity:	No data available No data available. No data available No data available
Kinematic viscosity:	No data available	Dynamic viscosity.	
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point: Flammability(solid, gas):	49°C (120°F) No data available	Autoignition temperature: Flammability or explosive limits:	416°C (781°F)
		Lower:	2.8%
		Upper:	15.2%
Solubility(ies): [Water] [Other solvents]	Miscible		
Miscible:	Ether, Alcohols, Benzene, C	hloroform	

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. No special reactivity has been reported. Spark, Open flame, Static discharge Oxidizing agents Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

RTECS Number: TX6825000

Acute Toxicity: orl-rat LD50:350 uL/kg ipr-mus LD50:296 mg/kg		skn-rbt LD50:200 uL/kg		
Skin corrosion/irritation: skn-rbt 50 mg open SEV				
Serious eye damage/irritation: eye-rbt 1 mg SEV				
Respiratory or skin sensitization: No data available				
Germ cell mutagenicity: No data available				
Carcinogenicity: No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
Reproductive toxicity: ipr-mus TDLo:264 mg/kg (12D preg)				
Target organ(s):	No data available			
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 No data available			
Log Pow:	No data available			
Soil adsorption (Koc):	No data available			
Henry's Law (PaM ³/mol):	No data available			
13. DISPOSAL CONSIDERATIONS				
Disposal of product:	Recycle to proces	s if possible. It is the generator's re	sponsibility to	comply with Federal State and
Disposal of container:	Local rules and re and burn in a cher intended to provid with this section er Identification and I be allowed to ente Dispose of as unu	gulations. You may be able to disso nical incinerator equipped with an a e assistance but does not replace t nsure regulatory compliance accord Listing of Hazardous Waste are list or the environment, drains, water was sed product. Do not re-use empty of	olve or mix ma afterburner and hese laws, no ding to the law ed in 40 CFR ays, or the soil containers.	Aterial with a combustible solvent d scrubber system. This section is r does compliance in accordance v. US EPA guidelines for Parts 261. The product should not I.
Other considerations:	Observe all federa	I, state and local regulations when	disposing of t	he substance.

14. TRANSPORT INFORMATION

14. TRANSPORT	INFORMATION			
<u>DOT (US)</u> UN number: UN2734	Proper Shipping Name: Polyamines, liquid, corrosive, flammable, n.o.s	Class or Division: 8 Corrosive material	Subrisk(s): 3 Flammable liquid	Packing Group: II
IATA UN number: UN2734	Proper Shipping Name: Polyamines, liquid, corrosive, flammable, n.o.s	Class or Division: 8 Corrosive material	Subrisk(s): 3 Flammable liquid	Packing Group: II
I MDG UN UN2734 humb er:	Proper Shipping Name: Polyamines, liquid, corrosive, flammable, n.o.s	Class or Division: 8 Corrosive material	Subrisk(s): 3 Flammable liquid	Packing Group: II
EmS number:	F-E, S-C			
	Y INFORMATION			
<u>US Federal Regulat</u> CERCLA Hazardou SARA 313: SARA 302:	s substance and Reportable Quantity: Not Listed Not Listed			
State Regulations State Right-to-Knov Massachusetts New Jersey				
Pennsylvania	Listed			
California Proposit	ion 65: Not Listed			
Flammability: 2	3 2)	HMIS Classification: Health: Flammability: Physical:	3 2 0	
International Invent Canada: DSL EC-No:	tories On DSL 203-702-7	-		
16. OTHER INFO	RMATION			

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