

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

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:

Signal word:

Hazard Statement(s):

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal]

Hazards not otherwise classified: [HNOC] N,N,N',N",N"-Pentamethyldiethylenetriamine P0881

TCI AMERICA

SAFETY DATA SHEET

For laboratory research purposes. Not for drug or household use.

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

Acute Toxicity - Oral [Category 4] Acute Toxicity - Dermal [Category 3] Eye Damage/Irritation [Category 1] Flammable Liquids [Category 4] Skin Corrosion/Irritation [Category 1B]

Danger!

Combustible liquid Harmful if swallowed Toxic in contact with skin Causes severe skin burns and eye damage

Keep away from flames and hot surfaces. – No smoking. Do not breathe dusts or mists. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection.

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on 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 and easy to do. Continue rinsing. Immediately call a poison center or doctor. Store in a well-ventilated place. Keep cool. 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.).

None.



3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	N,N,N',N'',N''-Pentamethyldiethylenetriamine
Percent:	>99.0%(GC)
CAS RN:	3030-47-5
Molecular Weight:	173.30
Chemical Formula:	C9H23N3
Chemical Formula:	C9H23N3
Synonyms:	PMDETA , PMDTA

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. Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.			
Skin contact:				
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			
Indication of any immediate medical Not available.	attention:			
Natao ta physiology				

Notes to physician: No data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical, foam, water in large amounts, carbon dioxide.
Specific hazards arising from the chemical:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
Hazardous combustion products: Other specific hazards:	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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective	Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate
equipment and emergency procedures:	ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off,
- 1 - 1	etc.
Environmental precautions:	Prevent product from entering drains.
Methods and materials for containment	
and cleaning up:	amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly
and bloaning up.	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
revention of secondary hazards.	spark-proof tools and explosion-proof equipment.
7. HANDLING AND STORAGE	
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Descentions for a fail an illum	
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent
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Packaging material: Comply with laws.

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 - Pale yellow No data available No data available No data available			
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity:	-20°C (-4°F) 86°C /1.6kPa (187°F) No data available 0.83 No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity:	No data available No data available. 6 No data available	
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available	
Flash point: Flammability(solid, gas):	72°C (162°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	155°C (311°F) 1.1% 5.6%	
Solubility(ies): [Water] [Other solvents]	Miscible No data available			
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. Open flame Oxidizing agents Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATIC	DN	
RTECS Number: IE2100000		
Acute Toxicity: orl-rat LD50:1630 uL/kg	skn-rbt LD50:280) uL/kg
Skin corrosion/irritation: No data available		
Serious eye damage/irritation: No data available		
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: No data available		
Target organ(s):	No data available	
12. ECOLOGICAL INFORMATION		
Ecotoxicity:		
Fish:	96h LC50:>110 mg/L (Oryzias latipes)	
Crustacea:	48h EC50:51 mg/L (Daphnia magna)	
Algae:	72h EC50:52 mg/L (Selenastrum capricornutur	m)
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	0 % (by BOD) , 0 - 1 % (by TOC) , 0 - 1 % (by No data available	GC)
Log Pow:	0.04	
Soil adsorption (Koc): Henry's Law (PaM ³/mol):	No data available 1.6 x 10 ⁻⁶	
13. DISPOSAL CONSIDERATIONS		
Disposal of product: Disposal of container:	Local rules and regulations. You may be able t and burn in a chemical incinerator equipped wi intended to provide assistance but does not re with this section ensure regulatory compliance	are listed in 40 CFR Parts 261. The product should not ater ways, or the soil.
Disposal of container:	Dispose of as unused product. Do not re-use e	

Other considerations:

Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US) UN number: UN2922	Proper Shipping Name: Corrosive liquids, toxic, n.o.s	Class or Division: 8 Corrosive material	Subrisk(s): 6.1 Toxic material.	Packing Group: II
IATA UN number: UN2922	Proper Shipping Name: Corrosive liquid, toxic, n.o.s	Class or Division: 8 Corrosive material	Subrisk(s): 6.1 Toxic material.	Packing Group: II
IMDG UN UN2922 numb er:	Proper Shipping Name: Corrosive liquid, toxic, n.o.s	Class or Division: 8 Corrosive material	Subrisk(s): 6.1 Toxic material.	Packing Group: II
EmS number:	F-A, S-B			

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	and Reportable Quantity:		
SARA 313:				
SARA 302:		Not Listed		
State Regulation	<u>s</u>			
State Right-to-Kr	now			
Massachuse	tts	Not Listed		
New Jersey		Not Listed		
Pennsylvania	a	Not Listed		
California Propos	sition 65:	Not Listed		
Other Information	<u>n</u>			
NFPA Rating:			HMIS Classification	:
Health:	3		Health:	3
Flammability:	2		Flammability:	2
Instability:	0		Physical:	0
International Inve	entories			
Canada: DSL	_	On DSL		
EC-No:		221-201-1		

16. OTHER INFORMATION

Revision date: 07/06/2018

Revision number: 1

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.