

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

2. HAZARD(S) IDENTIFICATION

Environmental Health Safety and Security www.TCIchemicals.com +1-503-286-7624 OSHA Haz Com: CFR 1910.1200: Acute Toxicity - Oral [Category 3] Acute Toxicity - Dermal [Category 4] WHMIS 2015: Eye Damage/Irritation [Category 1] Aquatic Hazard (Acute) [Category 3] Aquatic Hazard (Long-Term) [Category 3] Skin Corrosion/Irritation [Category 1C] Signal word: Danger! Hazard Statement(s): Toxic if swallowed Harmful in contact with skin Causes severe skin burns and eye damage Harmful to aquatic life Harmful to aquatic life with long lasting effects Pictogram(s) or Symbol(s): Precautionary Statement(s): Do not breathe dusts or mists. Avoid release to the environment. Do not eat, drink or smoke when [Prevention] 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 [Response] 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. [Storage] Store locked up. [Disposal] 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: None. [HNOC]

4-(2-Chloroethyl)morpholine Hydrochloride C1106

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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

3. COMPOSITION/INFORMATION ON INGREDIENTS

3. COMPOSITION/INFORMATION C	IN INGREDIENTS
Substance/mixture:	Substance
	4-(2-Chloroethyl)morpholine Hydrochloride
Components: Percent:	4-(2-Childreeny)/horpholine Hydrochildree >97.0%(T)
CAS RN:	
	3647-69-6
Molecular Weight:	186.08
Chemical Formula:	C6H12CINO · HCI
Synonyms:	2-Morpholinoethyl Chloride Hydrochloride
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
innalation:	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.
Lyo oomaan	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.
ingestion.	
Symptoms/effects:	
Acute:	Pain. Redness.
Delayed:	No data available
Indication of any immediate medical att Not available. Notes to physician: No data available	
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, foam, water spray, 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: Other specific hazards:	These products include: Carbon oxides Halogenated compounds WARNING: Highly toxic HCl gas is produced during combustion.
chemical: Hazardous combustion products:	These products include: Carbon oxides Halogenated compounds
chemical: Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Halogenated compounds WARNING: Highly toxic HCI gas is produced during combustion. Wear self-contained breathing apparatus if possible.

 7. HANDLING AND STORAGE

 Precautions for safe handling:
 Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing.

 Conditions for safe storage, including any incompatibilities Storage conditions:
 Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Protect from moisture. Store locked up. Store away from incompatible materials such as oxidizing agents. Hygroscopic

 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:	Dust 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:	Solid Crystal - Powder White - Very pale yellow No data available No data available No data available		
Melting point/freezing point:	185°C (365°F)	pH:	No data available
Boiling point/range:	No data available	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	No data available
Relative density:	No data available	Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available		
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point: Flammability(solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits:	No data available
· · · · · · · · · · · · · · · · · · ·		Lower:	No data available
		Upper:	No data available
Solubility(ies): [Water] [Other solvents]	Soluble No data available	oppor.	

10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Incompatible materials: Hazardous decomposition products:

No data available Stable under proper conditions. No special reactivity has been reported. Oxidizing agents Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Hydrogen chloride

11. TOXICOLOGICAL INFORMATION

RTECS Number: QE0260000

Acute Toxicity: ipr-mus LD50:161 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 21500 nmol/L	mmo-sat 21500 nmol/L (+S9)			
Carcinogenicity: No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
Reproductive toxicity: ipr-mus TDLo:150 mg/kg (1D male)				
Target organ(s):	No data available			
12. ECOLOGICAL INFORMATION				
Ecotoxicity:				
Ecotoxicity: Fish:	No data available			
Fish:	No data available No data available			
•	No data available No data available No data available			
Fish: Crustacea: Algae:	No data available No data available			
Fish: Crustacea: Algae: Persistence / degradability: Bioaccumulative potential(BCF):	No data available			
Fish: Crustacea: Algae: Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available No data available No data available			
Fish: Crustacea: Algae: Persistence / degradability: Bioaccumulative potential(BCF):	No data available No data available No data available No data available			
Fish: Crustacea: Algae: Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil Log Pow:	No data available No data available No data available No data available No data available			
Fish: Crustacea: Algae: Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil Log Pow: Soil adsorption (Koc):	No data available No data available No data available No data available No data available No data available			
Fish: Crustacea: Algae: Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil Log Pow: Soil adsorption (Koc): Henry's Law (PaM ³ /mol): 13. DISPOSAL CONSIDERATIONS	No data available No data available No data available No data available No data available No data available			
Fish: Crustacea: Algae: Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil Log Pow: Soil adsorption (Koc): Henry's Law (PaM ³/mol):	No data available No data available Cocal rules and rea and burn in a cher intended to provid with this section en Identification and I be allowed to ente	gulations. You may be able to nical incinerator equipped with e assistance but does not repla nsure regulatory compliance ad	dissolve or mix main an afterburner and ace these laws, nor ccording to the law, e listed in 40 CFR F er ways, or the soil.	Parts 261. The product should not

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14. TRANSPORT INFORMATION

<u>DOT (US)</u> UN number: UN2923	Proper Shipping Name: Corrosive solids, toxic, n.o.s	Class or Division: 8 Corrosive material	Subrisk(s): 6.1 Toxic material.	Packing Group:
IATA UN number: UN2923	Proper Shipping Name: Corrosive solid, toxic, n.o.s	Class or Division: 8 Corrosive material	Subrisk(s): 6.1 Toxic material.	Packing Group:
IMDG UN UN2923 numb er:	Proper Shipping Name: Corrosive solid, toxic, n.o.s	Class or Division: 8 Corrosive material	Subrisk(s): 6.1 Toxic material.	Packing Group: III
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		and Reportable Quantity:		
SARA 313:		Not Listed		
SARA 302:		Not Listed		
State Regulation	<u>s</u>			
State Right-to-Kr	างพ			
Massachuse	tts	Not Listed		
New Jersey		Not Listed		
Pennsylvania	a	Not Listed		
California Proposition 65:		Not Listed		
Other Information	n			
NFPA Rating:	—		HMIS Classification	:
Health:	3		Health:	3
Flammability:	0		Flammability:	0
Instability:	0		Physical:	0
International Inve	entories			
Canada: NDSL		On NDSL		
EC-No:		222-881-2		
LC-NO.		222-001-2		

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.