

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.

www.TCIchemicals.com	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 2] Acute Toxicity - Dermal [Category 2] Acute Toxicity - Inhalation [Category 2] Eye Damage/Irritation [Category 1] Corrosive to Metals [Category 1] Skin Corrosion/Irritation [Category 1B]
Signal word:	Danger!
Hazard Statement(s):	May be corrosive to metals Fatal if swallowed, in contact with skin or if inhaled Causes severe skin burns and eye damage
Precautionary Statement(s):	
[Prevention]	Keep only in original container. 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. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear respiratory protection. Wear protective gloves, protective clothing, face protection.
[Response]	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. Absorb spillage to prevent material damage.
[Storage]	Store in corrosive resistant bottle or metal container with a resistant inner liner. Store in a well-ventilated place. Keep container tightly closed. 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:	May develop pressure

Ha [HNOC]

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TCI AMERICA SAFETY DATA SHEET

3-Chloropropyl Chloroformate

For laboratory research purposes.

Not for drug or household use.

C1983



TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies:

Chemical Emergencies:

Emergency telephone number:

Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) Responsible department: TCI America Environmental Health Safety and Security

Packaging material:

3. COMPOSITION/INFORMATION ON INGREDIENTS

5. COMPOSITION/INFORMATION O	N INGREDIENTS		
Out of an a factoria	Culture		
ubstance/mixture: Substance			
Components:	3-Chloropropyl Chloroformate		
Percent:	>95.0%(GC)		
CAS RN:	628-11-5 156 00		
Molecular Weight:	156.99		
Chemical Formula:	C4H6Cl2O2 Chloraformia Acid 2 Chloropropul Estor		
Synonyms:	Chloroformic Acid 3-Chloropropyl Ester		
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		
initiation	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:	Dela Dedessa		
Acute:	Pain. Redness.		
Delayed:	No data available		
Indication of any immediate medical atte	ention:		
Not available.			
Notes to physician:			
No data available			
5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.		
Unsuitable extinguishing media:	Solid streams of water		
Hererdeus combustion producto.	These products include: Carbon oxides Halogenated compounds		
Hazardous combustion products: Other specific hazards:	WARNING: Highly toxic HCl gas is produced during combustion.		
Other specific hazards.	WARNING. Highly loxic HCI gas is produced during combustion.		
Advice for firefighters:	Wear self-contained breathing apparatus if possible.		
6. ACCIDENTAL RELEASE MEASU	RES		
Personal precautions, protective	Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate		
equipment and emergency procedures:			
equipment and emergency procedureer	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		
	disposed of, in accordance with appropriate laws and regulations.		
7. HANDLING AND STORAGE			
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent		
	generation of vapour or mist. Wash hands and face thoroughly after handling.		
	Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.		
	Avoid contact with skin, eyes and clothing.		
	May develop pressure. Open carefully. Use corrosive resistant equipment.		
Conditions for safe storage, including a			
Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place.		
	Store under inert gas. Protect from moisture. Store locked up.		
	Store away from incompatible materials such as oxidizing agents.		
	Moisture-sensitive		
Packaging material:	Comply with laws. Keep only in original container.		

Comply with laws. Keep only in original container.

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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 No data available No data available No data available	1	
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	No data available 189°C (372°F) No data available 1.31 No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl	No data available No data available. No data available No data available No data available
Log Fow.	NU Uala available	Acetate=1):	
Flash point: Flammability(solid, gas):	96°C (205°F) No data available	Autoignition temperature: Flammability or explosive limits:	No data available
Taninabiny(solid, gas).		Lower: Upper:	No data available No data available
Solubility(ies): [Water] [Other solvents]	No data available No data available		

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, Bases, Water Carbon monoxide, carbon dioxide etc

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available				
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:	No data available			
Crustacea:	No data available			
Algae:	No data available			
Algae:				
Algae: Persistence / degradability: Bioaccumulative potential(BCF):	No data available			
Algae: Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available No data available			
Algae: Persistence / degradability: Bioaccumulative potential(BCF):	No data available No data available No data available			
Algae: Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil Log Pow:	No data available No data available No data available No data available			
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			
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			
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 No data available No data available No data available No data available No data available Recycle to process Local rules and re and burn in a cher intended to provid with this section et Identification and I	e assistance but does not replac nsure regulatory compliance acc	issolve or mix mat an afterburner and ce these laws, nor cording to the law. listed in 40 CFR F	erial with a combustible solvent scrubber system. This section is does compliance in accordance US EPA guidelines for Parts 261. The product should not

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14. TRANSPORT INFORMATION

DOT (US) UN number: UN3277	Proper Shipping Name: Chloroformates, toxic, corrosive, n.o.s	Class or Division: 6.1 Toxic material.	Subrisk(s): 8 Corrosive material	Packing Group:
IATA UN number: UN3277	Proper Shipping Name: Chloroformates, toxic, corrosive, n.o.s	Class or Division: 6.1 Toxic material.	Subrisk(s): 8 Corrosive material	Packing Group: II
IMDG UN UN3277 numb er:	Proper Shipping Name: Chloroformates, toxic, corrosive, n.o.s	Class or Division: 6.1 Toxic material.	Subrisk(s): 8 Corrosive 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				
	ous substance a	and Reportable Quantity:		
SARA 313:		Not Listed		
SARA 302:		Not Listed		
State Regulation	S			
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	n			
NFPA Rating:			HMIS Classification	:
Health:	3		Health:	3
Flammability:	1		Flammability:	1
Instability:	0		Physical:	0
International Inve	entories			
Canada: NDSL		On NDSL		
EC-No:		425-770-9		

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.