

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

1. IDENTIFICATION

Product name: Product code:

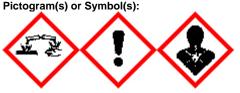
Product use: **Restrictions on use:**

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:	Acute Toxicity - Oral [Category 4] Acute Toxicity - Inhalation [Category 4] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 1] Carcinogenicity [Category 2] Aquatic Hazard (Acute) [Category 3]
Signal word:	Danger!
Hazard Statement(s):	Harmful if swallowed or if inhaled Causes skin irritation Causes serious eye damage Suspected of causing cancer Harmful to aquatic life
Pictogram(s) or Symbol(s):	

None.



Precautionary Statement(s): [Prevention]

[Response]

[Storage]

[Disposal]

understood. Avoid breathing mist, vapors or spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. 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: Call a poison center or doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice or attention. Take off contaminated 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 you feel unwell. 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. If exposed or concerned: Get medical advice or attention. Store locked up.

Obtain special instructions before use. Do not handle until all safety precautions have been read and

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]

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1,1,1,2-Tetrachloroethane T0695

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

TCI AMERICA

SAFETY DATA SHEET

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components:	Substance
Percent:	>99.0%(GC)
CAS RN:	630-20-6
Molecular Weight:	167.84
Chemical Formula:	C ₂ H ₂ Cl ₄

4. FIRST-AID MEASURES

Description of first aid measures Inhalation: Skin contact: Eye contact: Ingestion:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention. Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention. Get medical advice/attention.		
Symptoms/effects:			
Acute: Delayed:	Pain. Redness. No data available		
Indication of any immediate medical attended Not available. Notes to physician: No data available	ention:		
5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media:	Dry chemical, foam, water spray, 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:These products include: Carbon oxides Halogenated compoundsOther specific hazards:WARNING: Highly toxic HCl gas is produced during combustion.			
Advice for firefighters:	Wear self-contained breathing apparatus if possible.		
6. ACCIDENTAL RELEASE MEASU	RES		
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:	Prevent product from entering drains. 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.		
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 all contact!		
Conditions for safe storage, including a	ny incompatibilities		
Storage conditions:	Keep container tightly closed. Store in a cool and dark place. Store locked up. Store away from incompatible materials such as oxidizing agents.		
Packaging material:	Comply with laws.		

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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 - Almost colorles No data available No data available No data available	S	
Melting point/freezing point:	No data available	pH:	No data available
Boiling point/range:	131°C (268°F)	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	No data available
Relative density:	1.56	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]	No data available		
Soluble:	Ether, Alcohols, Benzene, A	Acetone, Chloroform	

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, Hydrogen chloride

11. TOXICOLOGICAL INFORMATION

RTECS Number: KI8450000

Acute Toxicity: ihl-rat LC50:2100 ppm/4H	orl-rat LD50:670 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-sat 10 ug/plate (+/-S9)	msc-mus-lym 200 mg/L		
Carcinogenicity: No data available			
IARC: Group 2B (Possibly carcino to humans) .	ogenic 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		
Persistence / degradability:	No data available		
Bioaccumulative potential(BCF):	No data available		
Mobility in soil			
Log Pow:	No data available		
Soil adsorption (Koc):	No data available		
Henry's Law (PaM ³/mol):	No data available		
13. DISPOSAL CONSIDERATIONS	Describe to an end of the second state of the second state of the	and a first the second south Earlie and Otate and	
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. 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: Other considerations:	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

DOT (US) UN number: UN2810	Proper Shipping Name: Toxic, liquids, organic, n.o.s	Class or Division: 6.1 Toxic material.	Packing Group:	
IATA UN number: UN2810	Proper Shipping Name: Toxic liquid, organic, n.o.s	Class or Division: 6.1 Toxic material.	Packing Group:	
IMDG UN UN2810 numb er:	Proper Shipping Name: Toxic liquid, organic, n.o.s	Class or Division: 6.1 Toxic material.	Packing Group: III	
EmS number:	F-A, S-A			

EmS number:

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	nd Reportable Quantity:			
SARA 313:		Listed			
SARA 302:		Not Listed			
State Regulation	<u>s</u>				
State Right-to-Kr	ow				
Massachuse	tts	Listed			
New Jersey		Listed			
Pennsylvania	a	Listed			
California Proposition 65:		Listed	Listed		
Other Information	<u>n</u>				
NFPA Rating:			HMIS Classification	1	
Health:	2		Health:	2	
Flammability:	0		Flammability:	0	
Instability:	0		Physical:	0	
International Inve	entories				
Canada: DSL		On DSL			
EC-No:		211-135-1			

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.