

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

#### 1. IDENTIFICATION

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TCI AMERICA

SAFETY DATA SHEET

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] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A] Specific Target Organ Toxicity (Single Exposure) [Category 1] Specific Target Organ Toxicity (Single Exposure) [Category 2] Specific Target Organ Toxicity (Single Exposure) [Category 3] Flammable Liquids [Category 2] Aquatic Hazard (Acute) [Category 3] Aquatic Hazard (Long-Term) [Category 3]		
Signal word:	Danger!		
Hazard Statement(s):	Highly flammable liquid and vapor Harmful if swallowed Causes skin irritation Causes serious eye irritation Harmful to aquatic life Harmful to aquatic life with long lasting effects		

Causes damage to: Liver Respiratory System May cause damage to organs: Heart May cause drowsiness or dizziness.

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

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 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, eye 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. If eye irritation persists: Get medical advice or attention. If exposed: Call a poison center or doctor. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

trans-1,2-Dichloroethylene (stabilized with MEHQ) D0368

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

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	trans-1,2-Dichloroethylene (stabilized with MEHQ)
Percent:	>98.0%(GC)
CAS RN:	156-60-5
Molecular Weight:	96.94
Chemical Formula:	C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub>
Synonyms:	trans-Acetylene Dichloride (stabilized with MEHQ)
Stabilizers:	Monomethylether Hydroquinone

### 4. FIRST-AID MEASURES

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.			
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water 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. Call a POISON CENTER or doctor/physician.			
Ingestion:	Call a POISON CENTER or doctor/physician. Rinse mouth.			
Symptoms/effects:				
Acute:	Dizziness. Redness. Drowsiness.			
Delayed:	No data available			

Indication of any immediate medical attention: Not available.

Notes to physician: No data available

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Unsuitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide. Solid streams of water
Specific hazards arising from the chemical: Hazardous combustion products: Other specific hazards:	This substance may polimerize explosively when heated or involved in a fire. Container may explode when heated. Combat fire from a sheltered position. These products include: Carbon oxides Halogenated compounds WARNING: Highly toxic HCI gas is produced during combustion.
Advice for firefighters:	Wear self-contained breathing apparatus if possible.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Use extra personal protective equipment (self-contained breathing apparatus). 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:	Prevent product from entering drains.		
Methods and materials for containment	Absorb spilled material in dry sand or inert absorbent before recovering it into a covered container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be		
and cleaning up:	promptly 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 spark-proof tools and explosion-proof equipment.		

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. Keep away from heat/sparks/open flame/hot surfacesNo smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. 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.			
Conditions for safe storage, includi	ing any incompatibilities			
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.			
Packaging material:	Light-sensitive Moisture-sensitive Comply with laws.			
8. EXPOSURE CONTROLS / PE	RSONAL 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 colorless Characteristic No data available No data available	5	
Melting point/freezing point:	No data available	pH:	No data available
Boiling point/range:	48°C (118°F)	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	3.34
Relative density:	1.26	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):	2°C (36°F) No data available	Autoignition temperature: Flammability or explosive limits:	460°C (860°F)
		Lower:	9.7%
		Upper:	12.8%
Solubility(ies): [Water] [Other solvents] Soluble:	Very slightly soluble Alcohols, Benzene, Acetone	, Toluene	

# 10. STABILITY AND REACTIVITY

Reactivity: Chemical stability:	No data available Polymerization may occur under the influences of heat, light or on contact with polymerization initiators such as peroxides etc.
Possibility of hazardous reactions:	No special reactivity has been reported.
Conditions to avoid:	Heat, Spark, Open flame, Static discharge, Light
Incompatible materials:	Oxidizing agents, Bases, Copper, Copper alloys
Hazardous decomposition products:	Carbon monoxide, carbon dioxide etc

11. TOXICOLOGICAL INFORMATION

RTECS Number: KV9400000

Acute Toxicity: ihl-hmn TCLo:4800 mg/m <sup>3</sup> /10M orl-mus LD50:2122 mg/kg	ipr-rat LD50:7411 mg/kg orl-rat LD50:1235 mg/kg			
Skin corrosion/irritation: skn-rbt 500 mg/24H MOD				
Serious eye damage/irritation: eye-rbt 10 mg MOD				
Respiratory or skin sensitization: No data available				
Germ cell mutagenicity: mmo-sat 50 ug/plate (+S9)	mrc-smc 80 mmol/L			
Carcinogenicity: No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
Reproductive toxicity: ihl-rat TCLo:12000 ppm/6H (7-16D preg)				
Target organ(s): Causes damage to: Liver Respiratory May cause damage to organs: Heart May cause drowsiness or dizziness.	System			
12. ECOLOGICAL INFORMATION				
Ecotoxicity: Fish: Crustacea: Algae:	-	/L (Daphnia magna) ng/L (Selenastrum capricori	nutum)	
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil Log Pow: Soil adsorption (Koc): Henry's Law (PaM <sup>3</sup> /mol):	0 % (by BOD) No data available 1.92 No data available No data available			
13. DISPOSAL CONSIDERATIONS				
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 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 CER Parts 261. The product should no			terial with a combustible solvent d scrubber system. This section is r does compliance in accordance . 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.

Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.

Disposal of container: Other considerations: 14. TRANSPORT INFORMATION

14. TRANSPORT	INFURIVIATION			
DOT (US) UN number: UN1150	Proper Shipping Na 1,2-Dichloroethylene		<b>Class or Division:</b> 3 Flammable liquid	Packing Group:
<u>IATA</u> UN number: UN1150	Proper Shipping Na 1,2-Dichloroethylene		<b>Class or Division:</b> 3 Flammable liquid	Packing Group:
IMDG UN UN1150 numb er:	Proper Shipping Na 1,2-Dichloroethylene		<b>Class or Division:</b> 3 Flammable liquid	Packing Group: II
EmS number: Reportable Quantiti	iy:	F-E, S-D 1000 Pounds (454 k	(ilograms)	
15. REGULATOR	Y INFORMATION			
This product is ON t	ontrol Act (TSCA 8b.) he EPA Toxic Substan	: aces Control Act (TSC	A) inventory.	
SARA 313:	<u>ions</u> s substance and Rep	Not Listed		
SARA 302:		Not Listed		
State Regulations State Right-to-Know	N			
Massachusetts		Listed		
New Jersey Pennsylvania		Not Listed Listed		
California Propositi	on 65:	Not Listed		
Other Information NFPA Rating:	,		HMIS Classification:	
Health: 2 Flammability: 3			Health: Flammability:	2 3
Instability: 0			Physical:	0
International Invent	ories			
Canada: DSL EC-No:		On DSL 205-860-2		
16. OTHER INFO	RMATION			
Revision date: 07/0	06/2018			

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### 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.