

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

ε-Caprolactone C0702

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

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	
Signal word:	

Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 1]

Danger!

Hazard Statement(s):

Causes skin irritation Causes serious eye damage

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention] [Response]

Hazards not otherwise classified: [HNOC]

May be harmful if swallowed.

a poison center or doctor.

Wash hands and face thoroughly after handling. Wear protective gloves, face protection.

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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:
Components:
Percent:
CAS RN:
Molecular Weight:
Chemical Formula:
Synonyms:

Substance ϵ -Caprolactone >99.0%(GC) 502-44-3 114.14 $C_6H_{10}O_2$ ϵ -Hexaloctone , ϵ -Hexanolactone

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. Get medical advice/attention if you feel unwell. Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.			
Skin contact:				
Eye contact:	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/attention. Get medical advice/attention if you feel unwell. Rinse mouth.			
Ingestion:				
Symptoms/effects:				
Acute: Delayed:	Pain. Redness. 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 in large amounts, carbon dioxide.			
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Closed containers may explode from heat of a fire.			
Advice for firefighters:	Wear self-contained breathing apparatus if possible.			
6. ACCIDENTAL RELEASE MEASU	KES			
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.			
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 ventilation, local exhaust if vapour or aerosol will be generated.			
Conditions for safe storage, including a	Avoid contact with skin, eyes and clothing. ny incompatibilities			
Storage conditions:	Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents.			
Packaging material:	Comply with laws.			
8. EXPOSURE CONTROLS / PERSC	DNAL PROTECTION			
Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.			
Personal protective equipment Respiratory protection:	Vapor respirator. Follow local and national regulations.			

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9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical state (20°C):	Liquid				
Form:	Clear Celarian Dala valleve				
Colour:	Colorless - Pale yellow				
Odour:	No data available				
Odor threshold:	No data available				
Odour threshold:	No data available				
Melting point/freezing point:	-1°C (30°F)	pH:	No data available		
Boiling point/range:	140°C /4.7kPa (284°F)	Vapour pressure:	No data available.		
Decomposition temperature:	No data available	Vapour density:	3.9		
Relative density:	1.08	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:	115°C (239°F)	Autoignition temperature:	200°C (392°F)		
Flammability(solid, gas):	No data available	Flammability or explosive limits: Lower:	0.9%		
		Upper:	9.6%		
Solubility(ies):		opper.	0.070		
[Water]	Miscible				
[Other solvents]					
Miscible:	Acetone				
Soluble:	Ethanol				
10. STABILITY AND REACT	IVITY				
Reactivity:	No data available				
Chemical stability:	Stable under proper condi	tions			

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, Strong acids, Strong bases Carbon dioxide, Carbon monoxide

11. TOXICOLOGICAL INFORMATION

RTECS Number: MO8400000

Acute Toxicity: ipr-mus LD50:1300 mg/kg skn-rbt LD50:5990 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

orl-rat LD50:4290 mg/kg

OSHA: No data available

Reproductive toxicity: No data available

Target organ(s):

No data available

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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:	1.22
Soil adsorption (Koc):	109.1
Henry's Law (PaM ³/mol):	1.83
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 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:	Dispose of as unused product. Do not re-use empty containers.
Other considerations:	Observe all federal, state and local regulations when disposing of the substance.
14. TRANSPORT INFORMATION	
DOT (US)	Non-hazardous for transportation.
IATA	Non-hazardous for transportation.
IMDG	Non-hazardous for transportation.

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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 Hazardous substance and Reportable Quantity:						
SARA 313:		Not Listed				
SARA 302:		Not Listed				
State Regulations	<u>s</u>					
State Right-to-Kn	ow					
Massachuse	tts	Not Listed				
New Jersey		Not Listed				
Pennsylvania	a	Not Listed				
California Propos	sition 65:	Not Listed				
Other Information	<u>1</u>					
NFPA Rating:			HMIS Classification:			
Health:	2		Health:			
Flammability:	1		Flammability:			
Instability:	0		Physical:			
International Inventories						
Canada: DSL		On DSL				
EC-No:		207-938-1				

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.