

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

1. IDENTIFICATION

Ethylene Cyanohydrin C1285 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 OSHA Haz Com: CFR 1910.1200: Skin Corrosion/Irritation [Category 2] WHMIS 2015: Eye Damage/Irritation [Category 2A] Specific Target Organ Toxicity (Repeated Exposure) [Category 2] Signal word: Warning! Causes skin irritation Hazard Statement(s):

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SAFETY DATA SHEET

Pictogram(s) or Symbol(s):



Hazards not otherwise classified:

Precautionary Statement(s): Do not breathe mist, vapors or spray. Wash hands and face thoroughly after handling. Wear protective [Prevention] gloves, eye protection. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice or attention. [Response] 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. If eye irritation persists: Get medical advice or attention. Get medical advice or attention if you feel unwell. [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.).

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

[HNOC]

Substance Ethylene Cyanohydrin >95.0%(GC) 109-78-4 71.08 C₃H₅NO 2-Cyanoethanol, 3-Hydroxypropionitrile, Hydracrylonitrile

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

Causes serious eye irritation May cause damage to organs through prolonged or repeated exposure: Kidney

May be harmful if in contact with skin. May be harmful if swallowed.

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.		
Skin contact:	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. 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.		
Eye contact:			
Ingestion:			
Symptoms/effects:			
Acute: Delayed:	Redness. No data available		
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Indication of any immediate medical attention Not available. Notes to physician: No data available	ention:		
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 Nitrogen oxides Closed containers may explode from heat of a fire.		
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 adequas: ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping 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 ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.		
Conditions for safe storage, including a Storage conditions:	ny incompatibilities Keep container tightly closed. Store in a cool and dark place. Store locked up. Store away from incompatible materials such as oxidizing agents. Heat-sensitive Light-sensitive		
Packaging material:	Comply with laws.		
8. EXPOSURE CONTROLS / PERSC	NAL 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:	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: Eye protection: Skin and body protection:	Impervious gloves. Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires.		

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9 PHYSICAL AND CHEMICAL PROPERTIES

9. PHYSICAL AND CHEMICA	AL PROPERTIES			
Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Yellow No data available No data available No data available			
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	No data available 221°C (430°F) No data available 1.05 No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. 2.45 No data available No data available	
Flash point: Flammability(solid, gas):	137°C (279°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	494°C (921°F) 2.3% 12.1%	
Solubility(ies): [Water] [Other solvents] Miscible:	Miscible Alcohols, Acetone	0000		
10. STABILITY AND REACTI	IVITY			
Reactivity: Chemical stability: Possibility of hazardous reactio Incompatible materials: Hazardous decomposition produced 11. TOXICOLOGICAL INFOR	Oxidizing agents, Acid lucts: Carbon monoxide, car	as been reported. ds, Bases, Amines		
RTECS Number: MU5250000				
Acute Toxicity: ihl-mus LC33:300 mg/m ³ /2H orl-rat LD50:3200 mg/kg		ipr-rat LD50:3200 mg/kg skn-rbt LD50:5 mL/kg		
Skin corrosion/irritation: skn-rbt 520 mg open MLD		skn-rbt 10 mg/24H open		
Serious eye damage/irritation: eye-rbt 500 mg MOD				
Respiratory or skin sensitizatior No data available	n:			

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):

May cause damage to organs through prolonged or repeated exposure: Kidney

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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): Mobility in soil	3.2		
Log Pow:	-0.94		
Soil adsorption (Koc):	1		
Henry's Law (PaM 3/mol):	4.4 x 10 ⁻⁵		
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 Regulations CERCLA Hazardous substance and Reportable Quantity: Not Listed SARA 313: SARA 302: Not Listed State Regulations State Right-to-Know Massachusetts Listed **New Jersey** Listed Pennsylvania Listed California Proposition 65: Not Listed Other Information **NFPA Rating: HMIS Classification:** Health: 2 Health: Flammability: 1 Flammability: Instability: Physical: 0 International Inventories Canada: DSL On DSL 203-704-8 EC-No:

16. OTHER INFORMATION

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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.