

Revision number: 1.1 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:

Signal word:

Hazard Statement(s):

Ethyl Vinyl Ether (stabilized with KOH) E0193

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SAFETY DATA SHEET

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

#### Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A] Flammable Liquids [Category 1]

Danger!

Extremely flammable liquid and vapor Causes skin irritation Causes serious eye irritation

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal]

Hazards not otherwise classified: [HNOC] 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. Wash hands and face thoroughly after handling. Wear protective gloves, eye 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. If eye irritation persists: Get medical advice or attention. Store in a well-ventilated place. Keep cool.

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.).

May cause polymerization. Lachrymator

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

	THORE DELITE
Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula: Stabilizers:	Substance Ethyl Vinyl Ether (stabilized with KOH) >98.0%(GC) 109-92-2 72.11 C4H&O Potassium hydroxide
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.
Eye contact: Ingestion:	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.
nigestion.	
Symptoms/effects:	
Acute: Delayed:	Redness. No data available
Notes to physician: No data available 5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media: Unsuitable extinguishing media:	Dry chemical, foam, carbon dioxide. Water (It may scatter and spread fire.)
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 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 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 and cleaning up: Prevent product from entering drains. Absorb spilled material in dry sand or inert absorbent before recovering it into a covered co case of large amount of spillage, contain a spill by bunding. Adhered or collected material spiromptly 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

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:	<ul> <li>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.</li> <li>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.</li> <li>Confirm in advance if peroxides exist when operations involving heating such as distillation are carried out.</li> </ul>			
Conditions for safe storage, including any incompatibilities				
Storage conditions:	Keep container tightly closed. Store in an explosion-poof refregerator. Store away from incompatible materials such as oxidizing agents. Heat-sensitive			
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:	Vapor respirator. Follow local and national regulations.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. A face-shield, if the situation requires.
Skin and body protection:	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 colorle Characteristic No data available No data available	55	
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	-115°C (-175°F) 36°C (97°F) No data available 0.75 No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. 2.5 No data available No data available
Flash point: Flammability(solid, gas):	-45°C (-49°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	202°C (396°F) 1.3% 28%
Solubility(ies): [Water] [Other solvents] Soluble: 10. STABILITY AND REACT	Very slightly soluble Ether, Ethanol		

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. May form explosive peroxides.
Possibility of hazardous reactions:	No special reactivity has been reported.
Conditions to avoid:	Heat, Spark, Open flame, Static discharge, Air, Light
Incompatible materials:	Oxidizing agents, Acids
Hazardous decomposition products:	Carbon dioxide, Carbon monoxide

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11. TC	XICOLOGICAL INFORMATION

# RTECS Number: KO0710000

Acute Toxicity: orl-rat LD50:8160 uL/kg ihl-rat LCLo:16000 ppm/4H	skn-rbt LD50:>20 mL/kg ihl-mus LC50:324 g/m³/15M			
Skin corrosion/irritation: skn-rbt 500 mg open MLD				
Serious eye damage/irritation: No data available				
<b>Respiratory or skin sensitization:</b> No data available				
Germ cell mutagenicity: sce-ham-ovr 17900 ppm				
Carcinogenicity: No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
<b>Reproductive toxicity:</b> 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: Bioaccumulative potential(BCF): Mobility in soil	No data available No data available			
Log Pow:	1.01			
Soil adsorption (Koc):	No data available			
Henry's Law (PaM³/mol):	No data available			
13. DISPOSAL CONSIDERATIONS Listed waste	U117/Ethyl carban	nate (urethane)		
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:		sed product. Do not re-use e al, state and local regulations		ne substance.

### 14. TRANSPORT INFORMATION

DOT (US) UN number: UN1302	Proper Shipping Name: Vinyl ethyl ether, stabilized	<b>Class or Division:</b> 3 Flammable liquid	Packing Group:
IATA UN number: UN1302	Proper Shipping Name: Vinyl ethyl ether, stabilized	<b>Class or Division:</b> 3 Flammable liquid	Packing Group: I
IMDG UN UN1302 numb er:	Proper Shipping Name: Vinyl ethyl ether, stabilized	<b>Class or Division:</b> 3 Flammable liquid	Packing Group: I
EmS number:	F-E, S-D		

### 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 and Rep	oortable Quantity:	
SARA 313:		Not Listed	
SARA 302:		Not Listed	
State Regulations			
State Right-to-Kn			
Massachusef		Listed	
	115		
New Jersey		Listed	
Pennsylvania	1	Listed	
California Propos	sition 65:	Not Listed	
Other Information	<b>.</b>		
	<u>1</u>		HMIS Classification:
NFPA Rating:	0		
Health:	2		Health:
Flammability:	4		Flammability:
Instability:	0		Physical:
International Inve	ontorios		
Canada: DSL		On DSL	
EC-No:		203-718-4	
EC-NO.		200-110-4	

# 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.

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