TCI EUROPE N.V.

C

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

	Revision date: 10/03/201			
SECTION 1: Identification of the	substance/mixture and of the company/undertaking			
.1 Product identifiers				
Product name:	Ethyl Vinyl Ether (stabilized with KOH)			
Product code:	E0193			
.2 Relevant identified uses of the s	ubstance or mixture and uses advised against			
Identified uses:	Reagents.			
.3 Details of the supplier of the safe	ety data sheet			
Supplier:				
TCI EUROPE N.V.				
Boerenveldseweg 6				
Haven 1063				
B-2070 Zwijndrecht	00			
Telephone: +32(0)3 735 07				
E-mail: sales-eu@tcichemic	als.com			
4 Emergency telephone number:	+32(0)70 245 245			
SECTION 2: Hazards identificati				
1 Classification of the substance of Flammable liquids	or mixture Category 1			
Skin corrosion/irritation	Category 2			
Serious eye damage/eye irritation				
.2 Label elements				
2 Label elements Pictograms or hazard symbols				
2.2 Label elements Pictograms or hazard symbols	Danger			
2 Label elements Pictograms or hazard symbols	Danger H224-Extremely flammable liquid and vapour.			
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SECTION 3: Composition/information on ingredients

3.1 Substances	
Components:	Ethyl Vinyl Ether (stabilized with KOH)
Percent:	>98.0%(GC)
CAS RN:	109-92-2
EC-No:	203-718-4
Chemical Formula:	C4H8O

SECTION 4: First aid measures 4.1 Description of first aid measures	
4.1 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:	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.
Ingestion:	Get medical advice/attention if you feel unwell. Rinse mouth.
Protection of first-aiders:	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

4.2 Most important symptoms and effects, both acute and delayed No data available

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures		
5.1 Extinguishing media	Dry shaminal form carbon diavide	
Suitable extinguishing media:	Dry chemical, foam, carbon dioxide.	
Unsuitable extinguishing media:	Water (It may scatter and spread fire.)	
5.2 Special hazards arising from the substance or mixture	This substance may polimerize explosively when heated or involved in a fire. Container may explode when heated. Combat fire from a sheltered position. Carbon dioxide, Carbon monoxide	
5.3 Advice for firefighters	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method accor to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources safe to do so. When extinguishing fire, be sure to wear personal protective equipment	
SECTION 6: Accidental release mea	asures	
6.1 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	
6.2 Environmental precautions	Prevent product from entering drains	
6.3 Methods and materials for containment and cleaning up	Absorb spilled material in dry sand or inert absorbent before recovering it into a covered container 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. Remove all sources or ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.	
6.4 Reference to other sections	For disposal see section 13.	
SECTION 7: Handling and storage		
7.1 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. Confirm in advance if peroxides exist when operations involving heating such as distillation are carried out.	
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in an explosion-poof refregerator. Store away from incompatible materials such as oxidizing agents. Heat-sensitive	
7.3 Specific end use(s)	No further relevant information available.	
E0193	Ethyl Vinyl Ether (stabilized with Page 2 of 5 KOH)	

SECTION 8: Exposure controls/personal protection			
8.1 Control parameters	No data available		
8.2 Exposure controls	Install a closed system or local exhaust. Also install safety shower and eye bath.		
Respiratory protection: Hand protection: Eye protection: Skin and body protection:	Vapor respirator. Follow local and national regulations. Protective gloves. Safety glasses. A face-shield, if the situation requires. Protective clothing. Protective boots, if the situation requires.		

SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties

9.1 Information on basic physical and c			
Physical state (20°C):	Liquid		
Form:	Clear		
Colour:	Colorless - Almost colorless		
Odour:	Characteristic		
pH:	No data available		
Melting point/freezing point:	-115°C		
Boiling point/range:	36°C		
Flash point:	-45°C		
Evaporation rate(Butyl Acetate=1):	No data available		
Flammability(solid, gas):	No data available		
Flammability or explosive limits:			
Lower:	1.3%		
Upper:	28%		
Vapour pressure:	57kPa/20°C		
Vapour density:	2.5		
Relative density:	0.75		
Solubility(ies):			
[Water]	Very slightly soluble		
[Other solvents]			
Soluble:	Ether, Ethanol		
Partition coefficient:	1.01		
n-octanol/water:			
Autoignition temperature:	202°C		
Decomposition temperature:	No data available		
Dynamic Viscosity:	No data available		
Kinematic viscosity:	No data available		
9.2 Other safety information	No data available		

SECTION 1): Stability and	reactivity

10.1 Reactivity	No data available	
10.2 Chemical stability	Polymerization may occur under the influences of heat, light or on contact with polymerization initiators such as peroxides etc. May form explosive peroxides.	
10.3 Possibility of hazardous reactions	No special reactivity has been reported.	
10.4 Conditions to avoid	Heat, Spark, Open flame, Static discharge, Air, Light	
10.5 Incompatible materials	Oxidizing agents, Acids	
10.6 Hazardous decomposition products	s Carbon dioxide, Carbon monoxide	

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SECTION 11: Toxicological information

1 Information on toxicological effect Acute Toxicity:	orl-rat LD50:8160 uL/kg
Acute Toxicity.	6
	skn-rbt LD50:>20 mL/kg
	ihl-rat LCLo:16000 ppm/4H
	ihl-mus LC50:324 g/m³/15M
Skin corrosion/irritation:	skn-rbt 500 mg open MLD
Serious eye damage/irritation:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	sce-ham-ovr 17900 ppm
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	No data available
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard:	No data available
RTECS Number:	KO0710000

SECTION 12: Ecological informat	ion		
12.1 Toxicity			
Fish:	No data available		
Crustacea:	No data available		
Algae:	No data available		
12.2 Persistence and degradability	No data available		
12.3 Bioaccumulative potential	No data available		
12.4 Mobility in soil			
Log Pow:	1.01		
Soil adsorption (Koc):	No data available		
Henry's Law (PaM ³/mol):	No data available		
12.5 Results of PBT and vPvB assess	ment		
PBT:	Not applicable		
vPvB:	Not applicable		
12.6 Other adverse effects	No data available		

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system but exert extra care in igniting as this material is highly flammable. Observe all federal, state and local regulations when disposing of the substance

SECTION 14: Transport information	ion	
14.1 UN number	1302	
14.2 UN proper shipping name		
ADR/RID	Vinyl ethyl ether, stabilized	
IMDG/IMO	Vinyl ethyl ether, stabilized	
ΙCAO/ΙΑΤΑ	Vinyl ethyl ether, stabilized	
14.3 Transport hazard class(es)		
ADR/RID	3: Flammable liquid	
IMDG/IMO	3: Flammable liquid	
ΙCAO/ΙΑΤΑ	3: Flammable liquid	
14.4 Packaging group		
ADR/RID	I	
IMDG/IMO	I	
ΙCAO/ΙΑΤΑ	I	
14.5 Environmental hazards		
Marine pollutant	-	
14.6 Special precautions for user	No data available	
SECTION 15: Regulatory informa		
15.1 Safety, health and environmenta	I regulations/legislation spec	
Water Hazard Classes (WGK) :		Class 1 - Low hazard to waters
Substance of Very High Concern REACH Regulations (EC) No.190		Not listed
15.2 Chemical safety assessment		A chemical safety assessment has not been carried out.
SECTION 16: Other information		
Prepared by:	TCI EUROPE N.V.	
Issue date:	10/03/2018	

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of shorage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

End of Safety Data Sheet

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