CII<u>TCI EUROPE N.V.</u>

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

	Revision number: 1.1	Revision date: 10/03/201
SECTION 1: Identification of	the substance/mixture and of the company/undertaking	
.1 Product identifiers		
Product name:	Ethylenedioxybis(trimethylsilane) [Protecting Reagent for Alde	hydes and Ketones]
Product code:	E0478	
.2 Relevant identified uses of th	he substance or mixture and uses advised against	
Identified uses:	Reagents.	
.3 Details of the supplier of the	safety data sheet	
Supplier:		
TCI EUROPE N.V.		
Boerenveldseweg 6		
Haven 1063		
B-2070 Zwijndrecht		
Telephone: +32(0)3 735		
E-mail: sales-eu@tciche	emicals.com	
.4 Emergency telephone number	er: +32(0)70 245 245	
SECTION 2: Hazards identifie		
.1 Classification of the substan		
Flammable liquids	Category 3	
Skin corrosion/irritation	Category 2	
Serious eve damage/eve irrit		
Serious eye damage/eye irrit	tation Category 2	
2 Label elements Pictograms or hazard symbol Signal word	tation Category 2 ols Warning	
2 Label elements Pictograms or hazard symbo	tation Category 2 ols Warning H226-Flammable liquid and vapour. H315-Causes skin irritation.	
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SECTION 3: Composition/information on ingredients

3.1 Substances	
Components:	Ethylenedioxybis(trimethylsilane) [Protecting Reagent for Aldehydes and Ketones]
Percent:	>97.0%(GC)
CAS RN:	7381-30-8
EC-No:	230-950-3
Synonyms:	1,2-Bis(trimethylsilyloxy)ethane, Ethylene Glycol Bis(trimethylsilyl Ether)
Chemical Formula:	C8H22O2Si2

SECTION 4: 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 Suitable extinguishing media: Unsuitable extinguishing media:	Dry chemical, foam, carbon dioxide. Water (It may scatter and spread fire.)	
5.2 Special hazards arising from the substance or mixture	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. Carbon dioxide, Carbon monoxide, Silicon oxides	
5.3 Advice for firefighters	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according 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 if 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 an airtight container. 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. Remove all sources of 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.	
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store under inert gas. Protect from moisture. Store away from incompatible materials such as oxidizing agents. Moisture-sensitive	
7.3 Specific end use(s)	No further relevant information available.	
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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

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9.1 Information on basic physical and c	hemical properties
Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless - Slightly pale yellow
Odour:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Boiling point/range:	166°C
Flash point:	46°C
Evaporation rate(Butyl Acetate=1):	No data available
Flammability(solid, gas):	No data available
Flammability or explosive limits:	
Lower:	No data available
Upper:	No data available
Vapour pressure:	No data available.
Vapour density:	No data available
Relative density:	0.84
Solubility(ies):	
[Water]	No data available
[Other solvents]	No data available
Partition coefficient:	No data available
n-octanol/water:	
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available
9.2 Other safety information	No data available

SECTION 10: Stability and read	ctivity
10.1 Reactivity	No da

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under proper conditions.
10.3 Possibility of hazardous reactions	No special reactivity has been reported.
10.4 Conditions to avoid	Spark, Open flame, Static discharge
10.5 Incompatible materials	Oxidizing agents
10.6 Hazardous decomposition products	s Carbon dioxide, Carbon monoxide, Silicon oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	No data available
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:	
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

SECTION 12: Ecological information

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:	No data available	
Soil adsorption (Koc):	No data available	
Henry's Law (PaM ³ /mol):	No data available	
12.5 Results of PBT and vPvB assessment		
PBT:	Not applicable	
vPvB:	Not applicable	

12.6 Other adverse effects

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. Observe all federal, state and local regulations when disposing of the substance.

No data available

SECTION 14: Transport information

14.1 UN number	1993
14.2 UN proper shipping name	
ADR/RID	Flammable liquid, n.o.s
IMDG/IMO	Flammable liquid, n.o.s
ΙCAO/ΙΑΤΑ	Flammable liquid, n.o.s
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	
IMDG/IMO	
ICAO/IATA	III
14.5 Environmental hazards	
Marine pollutant	-
14.6 Special precautions for user	No data available

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Substance of Very High Concern (SVHC) according to the Not listed REACH Regulations (EC) No.1907/2006

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 "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. 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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