**CI** TCI EUROPE N.V.

# SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

SECTION 1: Identification of the s	ubstance/mixture and of the company/undertaking
.1 Product identifiers	
Product name:	IsobutyI VinyI Ether (stabilized with KOH)
Product code:	10099
.2 Relevant identified uses of the sub Identified uses:	stance or mixture and uses advised against Reagents.
I.3 Details of the supplier of the safety	v data sheet
Supplier:	
TCI EUROPE N.V.	
Boerenveldseweg 6	
Haven 1063 B-2070 Zwijndrecht	
Telephone: +32(0)3 735 07 00	
E-mail: sales-eu@tcichemicals	
.4 Emergency telephone number:	+32(0)70 245 245
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SECTION 2: Hazards identification .1 Classification of the substance or I	
Flammable liquids	Category 2
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Pictograms or hazard symbols	
Signal word	Danger
Signal word Hazard statements	H225-Highly flammable liquid and vapour.
0	H225-Highly flammable liquid and vapour. H315-Causes skin irritation.
Hazard statements	H225-Highly flammable liquid and vapour. H315-Causes skin irritation. H319-Causes serious eye irritation.
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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 effec No data available	ts, both acute and delayed
4.3 Indication of any immediate medical No data available	attention and special treatment needed
SECTION 5: Firefighting measures	
5.1 Extinguishing media	
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 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	
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. 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 an explosion-poof refregerator. Store under inert gas. Store away from incompatible materials such as oxidizing agents. Heat-sensitive, Air-sensitive
7.3 Specific end use(s)	No further relevant information available.

10099	Isobutyl Vinyl Ether (stabilized	Page 2 of 5
	with KOH)	

SECTION 8: Exposure controls/pers	sonal 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 shared shar

9.1 Information on basic physical and chemical properties         Physical state (20°C):       Liquid         Form:       Clear         Colour:       Colorless - Almost colorless         Odour:       No data available         PH:       No data available         Melting point/freezing point:       No data available         Boiling point/range:       83°C         Flash point:       -15°C         Evaporation rate(Butyl Acetate=1):       No data available         Flammability (solid, gas):       No data available         Flammability or explosive limits:       Lower:         Lower:       1.4%         Upper:       7.8%         Vapour pressure:       5.6kPa/20°C         Vapour density:       3.45         Relative density:       0.77         Solubility(ies):       [Water]         [Water]       Very slightly soluble         [Other solvents]       Soluble:         Soluble:       Ether, Alcohols, Benzene, Acetone         Partition coefficient:       No data available         n-octanol/water:       400 data available         n-octanol/water:       No data available         Autoignition temperature:       No data available         Dynamic Visc		
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[Other solvents]Soluble:Ether, Alcohols, Benzene, AcetonePartition coefficient:No data availablen-octanol/water:195°CAutoignition temperature:195°CDecomposition temperature:No data availableDynamic Viscosity:No data availableKinematic viscosity:No data available	Solubility(ies):	
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Partition coefficient:No data availablen-octanol/water:195°CAutoignition temperature:No data availableDecomposition temperature:No data availableDynamic Viscosity:No data availableKinematic viscosity:No data available	[Other solvents]	
n-octanol/water:195°CAutoignition temperature:195°CDecomposition temperature:No data availableDynamic Viscosity:No data availableKinematic viscosity:No data available	Soluble:	
Autoignition temperature:195°CDecomposition temperature:No data availableDynamic Viscosity:No data availableKinematic viscosity:No data available		No data available
Decomposition temperature:No data availableDynamic Viscosity:No data availableKinematic viscosity:No data available		10500
Dynamic Viscosity:       No data available         Kinematic viscosity:       No data available	•	
Kinematic viscosity: No data available	· ·	
9.2 Other safety information No data available	Kinematic viscosity:	No data available
	9.2 Other safety information	No data available

	SECTION	10:	Stability	' and	reactivity
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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.
10.3 Possibility of hazardous reactions	No special reactivity has been reported.
10.4 Conditions to avoid	Heat, Spark, Open flame, Static discharge, Light
10.5 Incompatible materials	Oxidizing agents
10.6 Hazardous decomposition products	s Carbon dioxide, Carbon monoxide

# SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	ihl-rat LCLo:16000 ppm/4H
	orl-rat LD50:17 mL/kg
	skn-rbt LD50:20 mL/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:	
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:	KO1300000

# 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 assessm	ent
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

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SECTION 14: Transport information	on	
14.1 UN number	1304	
14.2 UN proper shipping name		
ADR/RID	Vinyl isobutyl ether, stabili	zed
IMDG/IMO	Vinyl isobutyl ether, stabili	zed
ICAO/IATA	Vinyl isobutyl ether, stabili	zed
14.3 Transport hazard class(es)		
ADR/RID	3: Flammable liquid	
IMDG/IMO	3: Flammable liquid	
ICAO/IATA	3: Flammable liquid	
14.4 Packaging group		
ADR/RID	П	
IMDG/IMO	П	
ICAO/IATA	II	
14.5 Environmental hazards		
Marine pollutant	-	
14.6 Special precautions for user	No data available	
SECTION 15: Regulatory informat	tion	
15.1 Safety, health and environmental		
Water Hazard Classes (WGK) :		Class 1 - Low hazard to waters
Substance of Very High Concern REACH Regulations (EC) No.1907		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 "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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