TCI EUROPE N.V.

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SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 1		Revision date: 06/30/2021	
SECTION 1: Identification of th	e substance/mixture and of t	the company/undertaking	
1.1 Product identifiers			
Product name:	Ethylene Glycol Monobutyl	Ether	
Product code:	B0698		
1.2 Relevant identified uses of the Identified uses:	substance or mixture and uses a Reagents.	advised against	
1.3 Details of the supplier of the sa	fety data sheet		
Supplier: TCI EUROPE N.V.			
Boerenveldseweg 6			
Haven 1063			
B-2070 Zwijndrecht			
Telephone: +32(0)3 735 0	7 00		
E-mail: sales-eu@tcichem			
1.4 Emergency telephone number:	+32(0)70 245 245		
SECTION 2: Hazards identifica	tion		
2.1 Classification of the substance	or mixture		
Acute toxicity (Oral)		Category 3	
Acute toxicity (Dermal)		Category 3	
Acute toxicity (Inhalation)		Category 2	
Skin corrosion/irritation		Category 2	
Serious eye damage/eye irritat		Category 2	
Specific target organ toxicity -		Liver, Blood, Kidney, Respiratory system	1
Specific target organ toxicity -		Narcotic effects	
Specific target organ toxicity -	Repeated exposure [Category 1		
2.2 Label elements Pictograms or hazard symbols			
Signal word	Danger		
Hazard statements	H330-Fatal if inhaled.		
	H301+H311-Toxic if swallo	wed or in contact with skin.	
	H315-Causes skin irritation		
	H319-Causes serious eye irritation.		
	H361fd-Suspected of damaging fertility. Suspected of damaging the unborn child.		
	H370-Causes damage to organs : Liver Blood Kidney Respiratory system		
	H372-Causes damage to organs through prolonged or repeated exposure : Blood H336-May cause drowsiness or dizziness.		
Precautionary statements			
i roodalionaly olatomonio	P284-Wear respiratory prot		
	P301+P310+P330-IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth.		
	P302+P352+P312+P361+P364-IF ON SKIN: Wash with plenty of soap and water. Call a POISON		
	CENTER or doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before		
	reuse.		
		LED: Remove person to fresh air and keep	comfortable for breathing.
	Immediately call a POISON	P313-IF IN EYES: Rinse cautiously with wa	ter for several minutes. Pomovo
		nd easy to do. Continue rinsing. If eye irrita	
	or attention.	,	
2.3 Other hazards	May form explosive peroxic	les.	

2.3 Other hazards Results of PBT and vPvB assessment

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PBT:	Not applicable
vPvB:	Not applicable

Components:	Ethylene Glycol Monobutyl Ether
Percent:	>99.0%(GC)
CAS RN:	111-76-2
EC-No:	203-905-0
Synonyms:	2-Butoxyethanol, Butyl Cellosolve, Butyl Glycol
Chemical Formula:	C6H14O2

4.1 Description of first aid measures	2
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Call a POISON CENTER or doctor/physician.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Call a POISON CENTER or doctor/physician.
Ingestion:	Immediately call a POISON CENTER or doctor/physician. 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:	Dry chemical, foam, water in large amounts, carbon dioxide.
5.2 Special hazards arising from the substance or mixture	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: Remove movable containers 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 personal protective equipment. 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 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. 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 flames and hot surfaces. 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 all contact! 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 a cool, dark and well-ventilated place. Store locked up. Store away from incompatible materials such as oxidizing agents.
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		
ACGIH TLV(TWA):	20 ppm (skin)	
OSHA PEL(TWA):	50 ppm (skin)	
JSOH OELs(TWA):	20 ppm (skin)	
8.2 Exposure controls	Install a closed system or local exhaust. Also install safety shower and eye bath.	
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:	Impervious gloves.	
Eye protection:	Safety goggles. A face-shield, if the situation requires.	
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.	

I Information on basic physical and cl			
Physical state (20°C):	Liquid		
Form:	Clear		
Colour:	Colorless		
Odour:	Ether-like		
Odour threshold:	0.10 ppm		
pH:	No data available		
Melting point/freezing point:	-75°C		
Boiling point/range:	171°C		
Flash point:	68°C		
Evaporation rate(Butyl Acetate=1):	No data available		
Flammability(solid, gas):	No data available		
Flammability or explosive limits:			
Lower:	1.1%		
Upper:	12.7%		
Vapour pressure:	0.10kPa/20°C		
Vapour density:	4.1		
Relative density:	0.90		
Solubility(ies):			
[Water]	Miscible		
[Other solvents]			
Miscible:	Ether, Alcohols, Benzene, Acetone, Heptane, Many organic solvents		
Partition coefficient:	0.83		
n-octanol/water:			
Autoignition temperature:	238°C		
Decomposition temperature:	No data available		
Dynamic Viscosity:	No data available		
Kinematic viscosity:	No data available		
2 Other safety information	No data available		
ECTION 10: Stability and reactivit	\mathbf{V}		

10.1 Reactivity	No data available
10.2 Chemical stability	May form explosive peroxides.
10.3 Possibility of hazardous reactions	No special reactivity has been reported.
10.4 Conditions to avoid	Open flame, Air
10.5 Incompatible materials	Oxidizing agents

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects		
orl-rat LD50:250 mg/kg		
skn-rbt LD50:220 mg/kg		
ihl-rat LC50:450 ppm/4H		
orl-hmn LDLo:143 mg/kg		
skn-rbt 500 mg open MLD		
eye-rbt 100 mg SEV		
No data available		
cyt-rat-ihl 0.5 ppb		
mmo-sat 19 umol/plate (-S9)		
ihl-mus TCLo:15600mg/kg/104W-I		
ihl-rat TCLo:3250 mg/kg/104W-I		
No data available		
No data available		
ihl-rat TCLo:25 ppm/6H (6-15D preg)		
orl-rat TDLo:6279 mg/kg (13W male)		
orl-rat TDLo:600 mg/kg (9-11D preg)		
No data available		
No data available		
No data available		
KJ8575000		

SECTION 12: Ecological information	tion	
12.1 Toxicity		
Fish:	96h LC50:>100 mg/L (Oryzias latipes)	
Crustacea:	48h EC50:>1000 mg/L (Daphnia magna)	
Algae:	72h EC50:>1000 mg/L (Selenastrum capricornutum)	
12.2 Persistence and degradability	96.0 % (by BOD) , 96.0 % (by TOC) , 100 % (by GC)	
12.3 Bioaccumulative potential	3	
12.4 Mobility in soil		
Log Pow:	0.83	
Soil adsorption (Koc):	8	
Henry's Law (PaM ³ /mol):	0.16	
12.5 Results of PBT and vPvB assess	sment	
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. Observe all federal, state and local regulations when disposing of the substance.

SECTION 14: Transport informat	ion	
14.1 UN number	2810	
14.2 UN proper shipping name		
ADR/RID	Toxic liquid, organic, n.o.s	3
IMDG/IMO	Toxic liquid, organic, n.o.s	3
ICAO/IATA	Toxic liquid, organic, n.o.s	3
14.3 Transport hazard class(es)		
ADR/RID	6.1: Toxic substance	
IMDG/IMO	6.1: Toxic substance	
ICAO/IATA	6.1: Toxic substance	
14.4 Packaging group		
ADR/RID	11	
IMDG/IMO	II	
ICAO/IATA	II	
14.5 Environmental hazards		
Marine pollutant	-	
14.6 Special precautions for user	No data available	
SECTION 15: Regulatory informa	ntion	
15.1 Safety, health and environmenta	I regulations/legislation spe	cific for the substance or mixture Class 1 - Low hazard to waters
Water Hazard Classes (WGK) :	$(\mathbf{C})(\mathbf{U},\mathbf{C})$ as a surface to the	Not listed
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006		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:	06/30/2021	

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