CI TCI EUROPE N.V.

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

R	Revision number: 2	Revision date: 07/29/2020
SECTION 1: Identification of the	e substance/mixture and of the company/undertaking	
1.1 Product identifiers	substancemixture and or the company/andertaking	
Product name:	Hexadecyltrimethylammonium Hydroxide (25% in Methanol)	
Product code:	H0083	
1.2 Relevant identified uses of the s	ubstance or mixture and uses advised against	
Identified uses:	Reagents.	
1.3 Details of the supplier of the safe Supplier:	ety data sheet	
TCI EUROPE N.V.		
Boerenveldseweg 6		
Haven 1063		
B-2070 Zwijndrecht	00	
Telephone: +32(0)3 735 07 E-mail: sales-eu@tcichemic		
1.4 Emergency telephone number:	+32(0)70 245 245	
SECTION 2: Hazards identificati		
2.1 Classification of the substance of		
Flammable liquids	Category 2	
Skin corrosion/irritation	Category 1C	
Serious eye damage/eye irritatio		
Reproductive toxicity	Category 1B	
Specific target organ toxicity - S Specific target organ toxicity - S		-1-
2.2 Label elements Pictograms or hazard symbols	Repeated exposure [Category 1] Visual system, Central nervous system	
	!	
Signal word	Danger	
Hazard statements	H225-Highly flammable liquid and vapour.	
	H314-Causes severe skin burns and eye damage.	
	H360FD-May damage fertility. May damage the unborn child. H370-Causes damage to organs : Central nervous system	
	H372-Causes damage to organs through prolonged or repeated expo	osure · Visual system Central
	nervous system	
	H335-May cause respiratory irritation.	
	H336-May cause drowsiness or dizziness.	
Precautionary statements	P260-Do not breathe mist, vapours or spray.	
	P280-Wear protective gloves, protective clothing, face protection.	du e constitue de la serie distale de la
	P301+P330+P331+P310-IF SWALLOWED: Rinse mouth. Do NOT in POISON CENTER or doctor.	duce vomiting. Immediately call a
	P303+P361+P353+P310+P363-IF ON SKIN (or hair): Take off imme	diately all contaminated clothing
	Rinse skin with water or shower. Immediately call a POISON CENTE	
	clothing before reuse.	
	P304+P340+P310-IF INHALED: Remove person to fresh air and kee	p comfortable for breathing.
	Immediately call a POISON CENTER or doctor.	
	P305+P351+P338+P310-IF IN EYES: Rinse cautiously with water for lenses, if present and easy to do. Continue rinsing. Immediately call a	
2.3 Other hazards Results of PBT and vPvB assessr		
H0083	Hexadecyltrimethylammonium	Page 1 of

Hydroxide (25% in Methanol)

PBT:	Not applicable
vPvB:	Not applicable

3.2 Mixtures	
Components:	Hexadecyltrimethylammonium Hydroxide (25% in Methanol)
Percent:	
CAS RN:	505-86-2
EC-No:	208-022-4
Synonyms:	Cetyltrimethylammonium Hydroxide (25% in Methanol)
Chemical Formula:	C19H43NO
Hazardous composition:	Chemical name: Methanol Conc.: < 75% CAS RN:67-56-1 EC No.: 200-659-6 Flam. Liq. 2, Acute Tox. 3, STOT SE 1 H225: Highly flammable liquid and vapour. H301: Toxic if swallowed. H311: Toxic in contact with skin. H331: Toxic if inhaled. H370: Causes damage to Optic nerve (nervus opticus), central nervous system Chemical name: Hexadecyltrimethylammonium Hydroxide Conc.: > 25% CAS RN:505-86-2 EC No.: 208-022-4 Pyr. Liq. 1, Water-react. 1, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 1
	H250: Catches fire spontaneously if exposed to air. H260: In contact with water releases flammable gases which may ignite spontaneously. H314: Causes severe skin burns and eye damage. H410: Ve toxic to aquatic life with long lasting effects.

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. 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. Immediately 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. Continue rinsing.Immediately call a POISON CENTER or doctor/physician.
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
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	3
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	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)
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 measures Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from 6.1 Personal precautions, protective equipment and emergency procedures 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 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 containment and cleaning up 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. H008

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	Hydroxide (25% in Methanol)	

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 all contact!
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. Store locked up. Store away from incompatible materials such as oxidizing agents. Air-sensitive
7.3 Specific end use(s)	No further relevant information available.
SECTION 8: Exposure controls/pers	sonal protection
8.1 Control parameters	No data available (Methanol)
	ACGIH TLV(TWA):200 ppm (skin)
	ACGIH TLV(STEL):250 ppm (skin)
	OSHA PEL(TWA):200 ppm
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.

SECTION 9: Physical and chemical	properties
9.1 Information on basic physical and cl	
Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless - Very pale yellow
Odour:	No data available
pH:	No data available
Melting point/freezing point:	No data available
	(Methanol) -98°C
Boiling point/range:	No data available
	(Methanol) 64°C
Flash point:	11°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:	0.83
Solubility(ies):	
[Water]	Soluble
[Other solvents]	No data available
Partition coefficient:	No data available (Methanol) -0.82/-0.66
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 reactivity

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, Acids, Reducing agents

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

SECTION 11: Toxicological information

SECTION 11: Toxicological inform	
1.1 Information on toxicological effect	
Acute Toxicity:	No data available
	(Methanol)
	orl-hmn LDLo:143 mg/kg
	orl-rat LD50:5600 mg/kg
	ihl-rat LC50:64000 ppm/4H
	skn-rbt LD50:15800 mg/kg
Skin corrosion/irritation:	No data available
	(Methanol)
	skn-rbt 20 mg/24H MOD
Serious eye damage/irritation:	No data available
	(Methanol)
	eye-rbt 40 mg MOD
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available
	(Methanol)
	dni-hmn-lym 300 mmol/L
	mmo-smc 12 pph (-S9)
	mmo-mus-lym 7900 mg/L (+S9)
	cyt-mus-ipr 75 mg/kg
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 assessme	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

4.2 UN proper shipping name ADR/RID	
ADR/RID	
	Flammable liquid, corrosive, n.o.s
IMDG/IMO	Flammable liquid, corrosive, n.o.s
ICAO/IATA	Flammable liquid, corrosive, n.o.s
4.3 Transport hazard class(es)	
ADR/RID	3: Flammable liquid
Subsidiary risk:	8: Corrosive.
IMDG/IMO	3: Flammable liquid
Subsidiary risk:	8: Corrosive.
ICAO/IATA	3: Flammable liquid
Subsidiary risk:	8: Corrosive.
4.4 Packaging group	
ADR/RID	II
IMDG/IMO	II
ICAO/IATA	II
4.5 Environmental hazards	
Marine pollutant	-
4.6 Special precautions for user	No data available
SECTION 15: Regulatory informati	ion
5.1 Safety, health and environmental	regulations/legislation specific for the substance or mixture

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:	07/29/2020

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 for 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 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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