SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifiers Product code: Cyclohexylamine COd94 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses: Regents. 1.3 Details of the supplier of the safety data sheet Supplier: TCI EUROPE N.V. Boarnveldsewag 6 Haven 1063 9-2070 Zwijndrecht Telephone: 432(0)3736 07 00 E-mail: seles-eu®tchemicals.com 1.4 Emergency telephone number: +32(0)70 245 245 SECTION 2: Hazards identification 2.1 Classification of the substance or mixture Flammable liquids Category 3 Category 4 Acute toxicity (foral) Acute toxicity (foral) Acute toxicity (foral) Hazard statements Danger Hazard statements Pictograms or hazard symbols Danger Hazard Statements Precautionary statements Danger Hazard Statements Pictograms or hazard symbols Danger Hazard Statements Precautionary statements Pager Protective clothers protective clothers protective clothers. P280-Wear proteclote clothers. P280-Wear protective clothe	F	evision number: 1	Revision date: 10/02/2018
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Precautionary statementsH314-Causes severe skin burns and eye damage. H361f-Suspected of damaging fertility. P260-Do not breathe dusts or mists. P280-Wear protective gloves, protective clothing, face protection. P301+P330+P331+P310-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately ca POISON CENTER or doctor. P303+P361+P353+P310+P363-IF ON SKIN (or hair): Take off immediately all contaminated clothin Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. P304+P340+P310-IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. P305+P351+P338+P310-IF IN EYES: Rinse cautiously with water for several minutes. Remove con lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.2.3 Other hazards Results of PBT and vPvB assessment PBT:Not applicable	Hazard statements	H226-Flammable liquid and vapour.	
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PBT: Not applicable		nent	
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SECTION 3: Composition/information on ingredients

3.1 Substances	
Components:	Cyclohexylamine
Percent:	>99.0%(GC)
CAS RN:	108-91-8
EC-No:	203-629-0
Chemical Formula:	C6H13N

SECTION 4: First aid m	easures
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SECTION 4. FILSE alu 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	
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 me	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 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. Protect from moisture. Store locked up. Store away from incompatible materials such as oxidizing agents. Hygroscopic, Air-sensitive
7.3 Specific end use(s)	No further relevant information available.

SECTION 8: Exposure controls	/personal protection
8.1 Control parameters ACGIH TLV(TWA):	10 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 ch	nemical properties
Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless - Almost colorless
Odour:	Pungent
Odour threshold:	2.6 ppm
pH:	No data available
Melting point/freezing point:	18°C
Boiling point/range:	135°C
Flash point:	30°C
Evaporation rate(Butyl Acetate=1):	No data available
Flammability(solid, gas):	No data available
Flammability or explosive limits:	
Lower:	1.5%
Upper:	9.4%
Vapour pressure:	1.4kPa/20°C
Vapour density:	3.42
Relative density:	0.87
Solubility(ies):	
[Water]	Miscible
[Other solvents]	
Miscible:	Ether, Alcohols
Soluble:	Benzene
Partition coefficient:	No data available
n-octanol/water:	293°C
Autoignition temperature:	No data available
Decomposition temperature: Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available
Kinematic viscosity:	INO UAIA AVAIIADIE
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, Acid chlorides, Acid anhydrides
10.6 Hazardous decomposition products	s Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

SECTION 11: Toxicological informa	ation
11.1 Information on toxicological effects	S
Acute Toxicity:	ihl-rat LC50:7500 mg/m ³
	orl-mus LD50:224 mg/kg
	orl-rat LD50:11 mg/kg
	skn-rbt LD50:320 uL/kg
Skin corrosion/irritation:	skn-hmn 125 mg/48H SEV
	skn-rbt 2 mg/24H SEV
Serious eye damage/irritation:	eye-rbt 50 ug/24H SEV
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	cyt-ham-fbr 10 mg/L
	cyt-hmn-leu 10 umol/L/5H
	dni-hmn-hla 100 ug/L
Carcinogenicity:	
IARC =	Group 3 (Not classifiable as carcinogenic to humans)
NTP =	No data available
Reproductive toxicity:	ipr-rat TDLo:300 mg/kg (1D male)
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard:	No data available
RTECS Number:	GX0700000

SECTION 12: Ecological informati	ion
12.1 Toxicity	
Fish:	96h LC50:33 mg/L (Oryzias latipes)
Crustacea:	48h EC50:36 mg/L (Daphnia magna)
Algae:	72h EC50:34 mg/L (Selenastrum capricornutum)
12.2 Persistence and degradability	61.6 % (by BOD) , 94.5 % (by TOC) , 100 % (by GC)
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 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. Observe all federal, state and local regulations when disposing of the substance.

14.1 UN number	2357	
14.2 UN proper shipping name		
ADR/RID	Cyclohexylamine	
IMDG/IMO	Cyclohexylamine	
ICAO/IATA	Cyclohexylamine	
	Gyölönöxylanine	
I4.3 Transport hazard class(es)		
ADR/RID	8: Corrosive	
Subsidiary risk:	3: Flammable liquid.	
IMDG/IMO	8: Corrosive	
Subsidiary risk:	3: Flammable liquid.	
ICAO/IATA	8: Corrosive	
Subsidiary risk:	3: Flammable liquid.	
14.4 Packaging group		
ADR/RID	Ш	
IMDG/IMO	 II	
ICAO/IATA		
4.5 Environmental hazards		
Marine pollutant	-	
4.6 Special precautions for user	No data available	
SECTION 15: Regulatory inform	ation	
15.1 Safety, health and environment	al regulations/legislation spe	
Water Hazard Classes (WGK) :		Class 1 - Low hazard to waters
Substance of Very High Concern		Not listed
REACH Regulations (EC) No.190	1//2006	
15.2 Chemical safety assessment		A chemical safety assessment has not been carried out.
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SECTION 16: Other information		
SECTION 16: Other information Prepared by:	TCI EUROPE N.V.	

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