**SAFETY DATA SHEET** 

According to 1907/2006/EC, Article 31

on number: 1	<b>Revision date:</b> 10/02/2018
stance/mixture and of the company/	undertaking
Cyclopentanol C0509	
ance or mixture and uses advised agains Reagents.	t
+32(0)70 245 245	
Category 3 Category 3 Category 2 Category 2	us system
Danger H226-Flammable liquid and vapour. H301-Toxic if swallowed. H310-Fatal in contact with skin. H319-Causes serious eye irritation. H371-May cause damage to organs : Centr	al nervous system
P260-Do not breathe mist, vapours or spray P280-Wear protective gloves, protective clo P301+P310+P330-IF SWALLOWED: Imme P302+P352+P310+P361+P364-IF ON SKII POISON CENTER or doctor. Take off imme P305+P351+P338+P337+P313-IF IN EYES contact lenses, if present and easy to do. C or attention.	y. othing, eye protection. ediately call a POISON CENTER or doctor. Rinse mouth. N: Wash with plenty of soap and water. Immediately call a ediately all contaminated clothing and wash it before reuse. S: Rinse cautiously with water for several minutes. Remove continue rinsing. If eye irritation persists: Get medical advice
Not applicable Not applicable	
	C0509 ance or mixture and uses advised agains Reagents. lata sheet 

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## SECTION 3: Composition/information on ingredients

3.1 Substances	
Components:	Cyclopentanol
Percent:	>99.0%(GC)
CAS RN:	96-41-3
EC-No:	202-504-8
Synonyms:	Hydroxycyclopentane
Chemical Formula:	C₅H10O

# 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 victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Eye contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Inmediately call a POISON CENTER or doctor/physician. 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. 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	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	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 locked up. Store away from incompatible materials such as oxidizing agents.
7.3 Specific end use(s)	No further relevant information available.

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:	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	I properties

9.1 Information on basic physical and ch	nemical properties
Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless - Almost colorless
Odour:	Pleasant
pH:	No data available
Melting point/freezing point:	-19°C
Boiling point/range:	140°C
Flash point:	47°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:	252kPa/25°C
Vapour density:	2.97
Relative density:	0.95
Solubility(ies):	
[Water]	Slightly soluble
[Other solvents]	
Soluble:	Ether, Alcohols, Acetone
Partition coefficient:	0.71
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

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SECTION	10: Stability	y 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, Acid chlorides, Acid anhydrides

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide

# SECTION 11: Toxicological information

11.1 Information on toxicological effect	S
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: 48h LC50:1490 mg/L (Leuciscus idus ssp. melanotus) Crustacea: 24h LC50:1100 mg/L (Daphnia magna) No data available Algae: 12.2 Persistence and degradability 97 % (by BOD) 12.3 Bioaccumulative potential 2 12.4 Mobility in soil Log Pow: 0.71 Soil adsorption (Koc): 58 Henry's Law (PaM <sup>3</sup>/mol): 0.26 12.5 Results of PBT and vPvB assessment 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 information		
14.1 UN number	2244	
14.2 UN proper shipping name		
ADR/RID	Cyclopentanol	
IMDG/IMO	Cyclopentanol	
ICAO/IATA	Cyclopentanol	
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	11	
IMDG/IMO	11	
ICAO/IATA	III	
14.5 Environmental hazards		
Marine pollutant	-	
14.6 Special precautions for user	No data available	

SECTION 15: Regulatory information		
15.1 Safety, health and environmental regulations/legislation spec	cific for the substance or mixture	
Water Hazard Classes (WGK) :	Class 1 - Low hazard to waters	
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:	10/02/2018
This SDS was prepared sincerely on the b	asis 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 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