CI TCI EUROPE N.V.

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revi	sion number: 1	Revision date: 10/02/2018
	bstance/mixture and of the company/underta	king
1.1 Product identifiers	4 Oblanda and Overside	
Product name: Product code:	4-Chlorobenzyl Cyanide C0585	
1.2 Relevant identified uses of the subs Identified uses:	tance or mixture and uses advised against Reagents.	
1.3 Details of the supplier of the safety	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.	com	
1.4 Emergency telephone number:	+32(0)70 245 245	
SECTION 2: Hazards identification		
2.1 Classification of the substance or m		
Acute toxicity (Oral)	Category 2	
Skin corrosion/irritation	Category 2 Category 2	
Serious eye damage/eye irritation	Category 2	
Pictograms or hazard symbols		
Cirral word	Denger	
Signal word Hazard statements	Danger H300-Fatal if swallowed.	
Hazaru statements	H315-Causes skin irritation.	
	H319-Causes serious eye irritation.	
Precautionary statements	P270-Do not eat, drink or smoke when using this pro	oduct.
r reductionary statements	P264-Wash hands and face thoroughly after handling P280-Wear protective gloves, eye protection.	
	P301+P310+P330-IF SWALLOWED: Immediately ca P302+P352+P332+P313+P362+P364-IF ON SKIN:	Wash with plenty of water. If skin irritation occurs:
	Get medical advice or attention. Take off contaminate P305+P351+P338+P337+P313-IF IN EYES: Rinse of	
	contact lenses, if present and easy to do. Continue ri	
2.3 Other hazards	or attention.	
Results of PBT and vPvB assessmen	t	
PBT:	Not applicable	
vPvB:	Not applicable	
SECTION 3: Composition/informat	on on ingredients	
3.1 Substances	4-Chlorobenzyl Cyanide	
Components:		
Percent:	>98.0%(GC)	
CAS RN:	140-53-4	
EC-No:	205-418-9	
Synonyms:	(4-Chlorophenyl)acetonitrile	
Chemical Formula:	C8H6CIN	

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:	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 effect 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, water spray, 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), Hydrogen chloride	
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	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to	
equipment and emergency procedures	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	Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.	
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 dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust 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 and dark 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/per	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:	Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators	
Hand protection:	approved under appropriate government standards and follow local and national regulations. 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 chemical properties				
Physical state (20°C):	Solid			
Form:	Crystal - Lump			
Colour:	White - Slightly pale yellow			
Odour:	No data available			
pH:	No data available			
Melting point/freezing point:	28°C (Freezing point)			
Boiling point/range:	267°C			
Flash point:	No data available			
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:	No data available			
Solubility(ies):				
[Water]	Soluble (550g/L, 20°C)			
[Other solvents]				
Soluble:	Alcohols, Benzene, Acetone, Toluene			
Partition coefficient:	2.47			
n-octanol/water:				
Autoignition temperature:	559°C			
Decomposition temperature:	No data available			
Dynamic Viscosity:	No data available			
Kinematic viscosity:	No data available			
9.2 Other safety information	No data available			

9.2 Other safety information

SECTION 10: Stability and ros

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	No data available	
10.5 Incompatible materials	Oxidizing agents, Acids, Strong bases, Reducing agents	

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

SECTION 11: Toxicological information 11.1 Information on toxicological effects

1.1 Information on toxicological effects	
Acute Toxicity:	skn-rbt LDLo:200 mg/kg
	ipr-mus LD50:27 mg/kg
	orl-rat LD50:50 mg/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:	AL8250000

SECTION 12: Ecological informat	ion
12.1 Toxicity	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
12.2 Persistence and degradability	31% (NH3) (by BOD) , 38% (by HPLC) , 38% (by TOC)
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	
Log Pow:	2.47
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 consideration	tions
13.1 Waste treatment methods	
disposing of the substance	quipped with an afterburner and scrubber system. Observe all federal, state and local regulations when
disposing of the substance.	
disposing of the substance. <u>SECTION 14: Transport informati</u> 14.1 UN number	
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SECTION 14: Transport informati 14.1 UN number 14.2 UN proper shipping name	on 3439
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SECTION 15: Regulatory information

 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Substance of Very High Concern (SVHC) according to the Not listed REACH Regulations (EC) No.1907/2006

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 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