SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

	evision number: 1	Revision date: 10/02/2018
SECTION 1: Identification of the	substance/mixture and of	the company/undertaking
.1 Product identifiers	4 Chlorobonzul Chlorida	
Product name:	4-Chlorobenzyl Chloride D0421	
Product code:	D0421	
.2 Relevant identified uses of the s Identified uses:	ubstance or mixture and uses a Reagents.	advised against
3 Details of the supplier of the safe	ety 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@tcichemic		
4 Emergency telephone number:	+32(0)70 245 245	
ECTION 2: Hazards identification of the substance of the		
Corrosive to metals	n mixture	Category 1
Acute toxicity (Oral)		Category 3
Acute toxicity (Dermal)		Category 3
Acute toxicity (Dermal) Acute toxicity (Inhalation)		Category 3
Skin corrosion/irritation		Category 1C
Skill Collosion/inflation		
Sorious ovo damago/ovo irritati	n .	
Serious eye damage/eye irritatio Germ cell mutagenicity 2 Label elements Pictograms or hazard symbols	on	Category 1 Category 2
Germ cell mutagenicity 2 Label elements	on	Category 1
Germ cell mutagenicity 2 Label elements	on	Category 1
Germ cell mutagenicity 2 Label elements Pictograms or hazard symbols	Danger	Category 1 Category 2
Germ cell mutagenicity 2 Label elements Pictograms or hazard symbols	Danger H290-May be corrosive to r	Category 1 Category 2
Germ cell mutagenicity 2 Label elements Pictograms or hazard symbols	Danger H290-May be corrosive to r H301+H311+H331-Toxic if	Category 1 Category 2 netals. swallowed, in contact with skin or if inhaled.
Germ cell mutagenicity 2 Label elements Pictograms or hazard symbols	Danger H290-May be corrosive to r H301+H311+H331-Toxic if H314-Causes severe skin b	Category 1 Category 2 netals. swallowed, in contact with skin or if inhaled. burns and eye damage.
Germ cell mutagenicity 2 Label elements Pictograms or hazard symbols Signal word Hazard statements	Danger H290-May be corrosive to r H301+H311+H331-Toxic if	Category 1 Category 2 netals. swallowed, in contact with skin or if inhaled. ourns and eye damage. g genetic defects.
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SECTION 3: Composition/information on ingredients

3.1 Substances	
Components:	4-Chlorobenzyl Chloride
Percent:	>98.0%(GC)
CAS RN:	104-83-6
EC-No:	203-242-7
Synonyms:	α,4-Dichlorotoluene
Chemical Formula:	C7H6Cl2

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. Immediately 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. 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 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, 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 equipment and emergency procedures	Use personal protective equipment. Keep people away from and upwind of spill/leak. 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	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 all contact! May develop pressure. Open carefully. Use corrosive resistant equipment.
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. Moisture-sensitive
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:	Dust 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: Skin and body protection:	Safety goggles. A face-shield, if the situation requires. 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):	Solid
Form:	Crystal - Lump
Colour:	White - Almost white
Odour:	No data available
pH:	No data available
Melting point/freezing point:	27°C (Freezing point)
Boiling point/range:	222°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:	2%
Upper:	8.6%
Vapour pressure:	No data available.
Vapour density:	No data available
Relative density:	No data available
Solubility(ies):	
[Water]	Insoluble
[Other solvents]	
Soluble:	Ether, Alcohols, Benzene, Acetone
Partition coefficient:	No data available
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	No data available	
10.5 Incompatible materials	Oxidizing agents	

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide, Hydrogen chloride

SECTION 11: Toxicological information 11.1 Information on toxicological effects

.1 Information on toxicological effects	
Acute Toxicity:	unr-mus LD50:1156 mg/kg
	unr-rat LD50:1075 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:	XT0720000

SECTION 12: Ecological information

12.1 IOXICITY	
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 assessm	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 dissolve or mix material with a combustible solvent and 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 14.1 UN number	3427	
14.1 UN number	3427	
14.2 UN proper shipping name		
ADR/RID	Chlorobenzyl chlorides, solid	
IMDG/IMO	Chlorobenzyl chlorides, solid	
ICAO/IATA	Chlorobenzyl chlorides, solid	
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	III	
IMDG/IMO	III	
ICAO/IATA	III	
14.5 Environmental hazards		
Marine pollutant	-	
14.6 Special precautions for user	No data available	

4-Chlorobenzyl Chloride

SECTION 15: Regulatory information 15.1 Safety, health and environmental regulations/legislation spe	cific for the substance or mixture
Water Hazard Classes (WGK) : Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006	Class 2 - Hazard to waters Not listed
15.2 Chemical safety assessment	A chemical safety assessment has not been carried out.
SECTION 16: Other information	

SECTION 16: Other infor	mation	
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 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