SAFETY DATA SHEET

GĬ

TCI EUROPE N.V.

According to 1907/2006/EC, Article 31

evision number: 1 Revision date: 10/02/20
substance/mixture and of the company/undertaking
Dibutyltin Dichloride
D0223
ubstance or mixture and uses advised against Reagents.
ety data sheet
00
als.com
+32(0)70 245 245
on
or mixture
Category 3
Category 4
Category 2
Category 1B
Category 2
Repeated exposure [Category 1] Organs
Category 1
Danger H301-Toxic if swallowed. H312-Harmful in contact with skin.
Danger H301-Toxic if swallowed. H312-Harmful in contact with skin. H330-Fatal if inhaled.
Danger H301-Toxic if swallowed. H312-Harmful in contact with skin. H330-Fatal if inhaled. H314-Causes severe skin burns and eye damage.
Danger H301-Toxic if swallowed. H312-Harmful in contact with skin. H330-Fatal if inhaled. H314-Causes severe skin burns and eye damage. H341-Suspected of causing genetic defects.
Danger H301-Toxic if swallowed. H301-Toxic if swallowed. H312-Harmful in contact with skin. H330-Fatal if inhaled. H314-Causes severe skin burns and eye damage. H341-Suspected of causing genetic defects. H360FD-May damage fertility. May damage the unborn child.
Danger H301-Toxic if swallowed. H301-Toxic if swallowed. H312-Harmful in contact with skin. H330-Fatal if inhaled. H314-Causes severe skin burns and eye damage. H341-Suspected of causing genetic defects. H360FD-May damage fertility. May damage the unborn child. H372-Causes damage to organs through prolonged or repeated exposure.
Danger H301-Toxic if swallowed. H312-Harmful in contact with skin. H330-Fatal if inhaled. H314-Causes severe skin burns and eye damage. H314-Causes severe skin burns and eye damage. H341-Suspected of causing genetic defects. H360FD-May damage fertility. May damage the unborn child. H372-Causes damage to organs through prolonged or repeated exposure. H400-Very toxic to aquatic life.
Danger H301-Toxic if swallowed. H312-Harmful in contact with skin. H330-Fatal if inhaled. H314-Causes severe skin burns and eye damage. H341-Suspected of causing genetic defects. H360FD-May damage fertility. May damage the unborn child. H372-Causes damage to organs through prolonged or repeated exposure. H400-Very toxic to aquatic life. H410-Very toxic to aquatic life.
Danger H301-Toxic if swallowed. H312-Harmful in contact with skin. H330-Fatal if inhaled. H314-Causes severe skin burns and eye damage. H341-Suspected of causing genetic defects. H360FD-May damage fertility. May damage the unborn child. H372-Causes damage to organs through prolonged or repeated exposure. H400-Very toxic to aquatic life. H410-Very toxic to aquatic life.
Danger H301-Toxic if swallowed. H312-Harmful in contact with skin. H330-Fatal if inhaled. H314-Causes severe skin burns and eye damage. H341-Suspected of causing genetic defects. H360FD-May damage fertility. May damage the unborn child. H372-Causes damage to organs through prolonged or repeated exposure. H400-Very toxic to aquatic life. H410-Very toxic to aquatic life.
Danger H301-Toxic if swallowed. H312-Harmful in contact with skin. H330-Fatal if inhaled. H314-Causes severe skin burns and eye damage. H341-Suspected of causing genetic defects. H360FD-May damage fertility. May damage the unborn child. H372-Causes damage for organs through prolonged or repeated exposure. H400-Very toxic to aquatic life. H410-Very toxic to aqua
Danger H301-Toxic if swallowed. H312-Harmful in contact with skin. H312-Harmful in contact with skin. H330-Fatal if inhaled. H314-Causes severe skin burns and eye damage. H341-Suspected of causing genetic defects. H360FD-May damage fertility. May damage the unborn child. H372-Causes damage for organs through prolonged or repeated exposure. H400-Very toxic to aquatic life. H410-Very toxic to aquatic life. H410-Very toxic to aquatic life with long lasting effects. P260-Do not breathe dust/fume/gas/mist/vapours/spray. P284-Wear respiratory protection. P301+P330+P331+P310-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call POISON CENTER or doctor. P303+P361+P353+P310+P363-IF ON SKIN (or hair): Take off immediately all contaminated clothing
Danger H301-Toxic if swallowed. H312-Harmful in contact with skin. H330-Fatal if inhaled. H314-Causes severe skin burns and eye damage. H341-Suspected of causing genetic defects. H360FD-May damage fertility. May damage the unborn child. H372-Causes damage to organs through prolonged or repeated exposure. H400-Very toxic to aquatic life. H410-Very toxic toxic to aquatic life. H410-Very toxic toxic to aquatic life. H410-Very toxic to
 Danger H301-Toxic if swallowed. H312-Harmful in contact with skin. H320-Fatal if inhaled. H314-Causes severe skin burns and eye damage. H341-Suspected of causing genetic defects. H360FD-May damage fertility. May damage the unborn child. H372-Causes damage to organs through prolonged or repeated exposure. H400-Very toxic to aquatic life. H410-Very toxic to aquatic life. H260-Do not breathe dust/fume/gas/mist/vapours/spray. P284-Wear respiratory protection. P301+P330+P331+P310-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call POISON CENTER or doctor. P303+P361+P353+P310+P363-IF ON SKIN (or hair): Take off immediately all contaminated clothing Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing Rinse skin with water or shower. Immediately call a POISON CENTER or doctor.
 Danger H301-Toxic if swallowed. H312-Harmful in contact with skin. H312-Harmful in contact with skin. H314-Causes severe skin burns and eye damage. H314-Suspected of causing genetic defects. H360FD-May damage fertility. May damage the unborn child. H372-Causes damage to organs through prolonged or repeated exposure. H400-Very toxic to aquatic life. H410-Very toxic toxic
Danger H301-Toxic if swallowed. H312-Harmful in contact with skin. H312-Harmful in contact with skin. H314-Causes severe skin burns and eye damage. H341-Suspected of causing genetic defects. H360FD-May damage fertility. May damage the unborn child. H372-Causes damage to organs through prolonged or repeated exposure. H400-Very toxic to aquatic life. H410-Very toxic to aquatic life. H410-Very toxic to aquatic life. H410-Very toxic to aquatic life with long lasting effects. P260-Do not breathe dust/fume/gas/mist/vapours/spray. P284-Wear respiratory protection. P301+P330+P331+P310-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call POISON CENTER or doctor. P303+P361+P353+P310+P363-IF ON SKIN (or hair): Take off immediately all contaminated clothing 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.
Danger H301-Toxic if swallowed. H312-Harmful in contact with skin. H312-Harmful in contact with skin. H314-Causes severe skin burns and eye damage. H341-Suspected of causing genetic defects. H360FD-May damage fertility. May damage the unborn child. H372-Causes damage to organs through prolonged or repeated exposure. H400-Very toxic to aquatic life. H410-Very toxic to aquatic life. H410-Very toxic to aquatic life. H410-Very toxic to aquatic life with long lasting effects. P260-Do not breathe dust/fume/gas/mist/vapours/spray. P284-Wear respiratory protection. P301+P330+P331+P310-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call POISON CENTER or doctor. P303+P361+P353+P310+P363-IF ON SKIN (or hair): Take off immediately all contaminated clothing 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 cont
Danger H301-Toxic if swallowed. H312-Harmful in contact with skin. H312-Harmful in contact with skin. H314-Causes severe skin burns and eye damage. H341-Suspected of causing genetic defects. H360FD-May damage fertility. May damage the unborn child. H372-Causes damage to organs through prolonged or repeated exposure. H400-Very toxic to aquatic life. H410-Very toxic to aquatic life. H410-Very toxic to aquatic life. H410-Very toxic to aquatic life with long lasting effects. P260-Do not breathe dust/fume/gas/mist/vapours/spray. P284-Wear respiratory protection. P301+P330+P331+P310-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call POISON CENTER or doctor. P303+P361+P353+P310+P363-IF ON SKIN (or hair): Take off immediately all contaminated clothing 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.
Danger H301-Toxic if swallowed. H312-Harmful in contact with skin. H312-Harmful in contact with skin. H314-Causes severe skin burns and eye damage. H341-Suspected of causing genetic defects. H360FD-May damage fertility. May damage the unborn child. H372-Causes damage to organs through prolonged or repeated exposure. H400-Very toxic to aquatic life. H410-Very toxic to aquatic life. H410-Very toxic to aquatic life. H410-Very toxic to aquatic life with long lasting effects. P260-Do not breathe dust/fume/gas/mist/vapours/spray. P284-Wear respiratory protection. P301+P330+P331+P310-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call POISON CENTER or doctor. P303+P361+P353+P310+P363-IF ON SKIN (or hair): Take off immediately all contaminated clothing 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 cont

Not applicable
nation on ingredients
Dibutyltin Dichloride
>97.0%(T)
683-18-1
211-670-0
Dibutyldichlorotin
C8H18Cl2Sn
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
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.
Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.
ffects, both acute and delayed

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 me	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	Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned		
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 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		
ACGIH TLV(TWA):	0.1 mg(Sn)/m ³ (skin)	
ACGIH TLV(STEL):	0.2 mg(Sn)/m ³ (skin)	
OSHA PEL(TWA):	0.1 mg(Sn)/m ³	
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:	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 - Powder				
Colour:	White - Greyish reddish yellow				
Odour:	Characteristic				
pH:	No data available				
Melting point/freezing point:	42°C				
Boiling point/range:	135°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:	0.27kPa/100°C				
Vapour density:	10.5				
Relative density:	No data available				
Solubility(ies):					
[Water]	Insoluble				
[Other solvents]					
Soluble:	Ether, Alcohols, Benzene, Toluene				
Partition coefficient:	No data available				
n-octanol/water:	Mandata and Webbe				
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				

SECTION 9: Physical and chemical properties

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

Oxidizing agents

10.5 Incompatible materials

SECTION 11: Toxicological information

1.1 Information on toxicological effects	5
Acute Toxicity:	ipr-rat LDLo:7500 ug/kg
	ivn-rat LDLo:10 mg/kg
	orl-mus LD50:70 mg/kg
	orl-rat LD50:100 mg/kg
Skin corrosion/irritation:	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:	dnd-bcs 2 mg/disk
	mmo-sat 1 ug/tube (+S9)
	msc-ham-ovr 100 ug/L
	oms-esc 100 ng/tube
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	orl-rat TDLo: 45 mg/kg (7-15D preg)
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard:	No data available
RTECS Number:	WH7100000

SECTION 12: Ecological information

No data available	
No data available	
No data available	
No data available	
No data available	
nent	
Not applicable	
Not applicable	
No data available	
m	No data available 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 information				
14.1 UN number	3146			
14.2 UN proper shipping name				
ADR/RID	Organotin compound, solid	n.o.s		
IMDG/IMO	Organotin compound, solid, n.o.s			
ICAO/IATA	Organotin compound, solid, n.o.s			
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	П			
IMDG/IMO	П			
ΙCAO/ΙΑΤΑ	II			
14.5 Environmental hazards				
Marine pollutant	Y			
14.6 Special precautions for user	No data available			
SECTION 15: Regulatory informat	ion			
15.1 Safety, health and environmental	regulations/legislation speci			
Water Hazard Classes (WGK) :		Class 3 - Severe hazard to waters		
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006		Listed (Candidate List)		
REACH Regulations (EC) No. 1907	2000			
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