

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Reference number: 02893 Issue date: 07-06-2023 Revision date: 07-06-2023 Supersedes version of: 20-05-2016 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier Product form • Substance Trade name COBALT (II) CHLORIDE HEXAHYDRATE AR/ACS EC Index-No. 616-574-6 EC-No. 231-589-4 · CAS-No. • 7791-13-1 Product code · 02893 Formula CoCl2.6H2O Chemical structure H_2O H_2O H_2O CI H_2O Cł Сo H₂0 H₂O Synonyms : Cobaltous chloride Hexahydrate, Cobalt dichloride Hexahydrate, Cobalt chloride Hexahydrate 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses Industrial/Professional use spec : Industrial For professional use only Use of the substance/mixture Laboratory chemicals • Manufacture of substances 1.2.2. Uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com 1.4. Emergency telephone number : + 91 22 6663 6663 (9:00am - 6:00 pm) Emergency number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Acute toxicity (oral), Category 4	H302
Respiratory sensitisation, Category 1	H334
Skin sensitisation, Category 1	H317
Germ cell mutagenicity, Category 2	H341
Carcinogenicity (inhalation) Category 1A	H350i
Reproductive toxicity, Category 1B	H360FD
Hazardous to the aquatic environment – Chronic Hazard, Category 1	H410
Full text of H- and EUH-statements: see section 16	

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Adverse physicochemical, human health and environmental effects

May cause cancer. Suspected of causing genetic defects. May damage fertility or the unborn child. Harmful if swallowed. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Very toxic to aquatic life with long lasting effects.

2.2. Label elements	
Labelling according to Regulation (EC) No. 127	2/2008 [CLP]
Hazard pictograms (CLP)	
	GHS07 GHS08 GHS09
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H302 - Harmful if swallowed.
	H317 - May cause an allergic skin reaction.
	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H341 - Suspected of causing genetic defects.
	H350i - May cause cancer by inhalation.
	H360FD - May damage fertility. May damage the unborn child.
	H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P273 - Avoid release to the environment.
	P280 - Wear protective clothing, eye protection, face protection, protective gloves.
	P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
	P302+P352 - IF ON SKIN: Wash with plenty of water.
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P308+P313 - IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients	
3.1. Substances	
Substance type Name CAS-No. EC-No. EC Index-No.	 Mono-constituent COBALT (II) CHLORIDE HEXAHYDRATE 7791-13-1 231-589-4 616-574-6
3.2. Mixtures	

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact	: Wash with plenty of water/ Get medical advice/attention. Wash contaminated clothing before reuse. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and eas to do. Continue rinsing. Get medical advice/attention.

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First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effect	s, both acute and delayed
Symptoms/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Symptoms/effects after skin contact Symptoms/effects after ingestion	May cause an allergic skin reaction.Swallowing a small quantity of this material will result in serious health hazard.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media	Carbon dioxide. Dry powder. Foam. Water spray.Do not use a heavy water stream.	
5.2. Special hazards arising from the substance or mixture		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Advice for firefighters		
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equipm	ent and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene. Avoid breathing dust/fume/gas/mist/vapours/spray.
6.1.2. For emergency responders	
Protective equipment	Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	Ventilate area.
6.2. Environmental precautions	
Avoid release to the environment. Notify authorities if p	product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up	
For containment	: Collect spillage.
Methods for cleaning up	: Mechanically recover the product. Soak up spills with inert solids, such as clay or
	diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.
	Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	

For further information refer to section 13.

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas
	with mild soap and water before eating, drinking or smoking and when leaving work. Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Always wash hands after handling the product.
7.2. Conditions for safe storage, including a	ny incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Chemical goggles or safety glasses

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8.2.2.2. Skin protection

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection: Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Crystals.
Molecular mass	: 237.93 g/mol
Colour	: Deep red.
Odour	: Odourless.
Odour threshold	: No data available
рН	: 4.6
pH solution concentration	: 5 %
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 86 °C
Freezing point	: Not applicable
Boiling point	: 110 °C
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: 400 °C
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.92 g/cm ³
Solubility	: Water: Soluble
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

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10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
Air contact. Direct sunlight. Moisture.
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information	
11.1 Information on toxicological effects	5
Acute toxicity (oral) Acute toxicity (dermal)	: Harmful if swallowed. : Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified pH: 4.6
Serious eye damage/irritation	: Not classified pH: 4.6
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: May cause cancer by inhalation.
Reproductive toxicity	: May damage fertility. May damage the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
COBALT (II) CHLORIDE HEXAHYDRATE AR/ACS (7791-13-1)	
Viscosity, kinematic	Not applicable
Potential adverse human health effects and symptoms	: Harmful if swallowed.

 SECTION 12: Ecological information

 12.1. Toxicity

 Ecology - general
 : Very toxic to aquatic life with long lasting effects.

 Ecology - water
 : Very toxic to aquatic life with long lasting effects.

 Hazardous to the aquatic environment, short-term (acute)
 : Not classified

 Hazardous to the aquatic environment, long-term (chronic)
 : Very toxic to aquatic life with long lasting effects.

 12.2. Persistence and degradability
 COBALT (II) CHLORIDE HEXAHYDRATE AR/ACS (7791-13-1)

Persistence and degradability	May cause long-term adverse effects in the environment.	
12.3 Rioaccumulative potential		
12.3. Bioaccumulative potential		

No additional information available

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2.4. Mobility in soil
o additional information available
2.5. Results of PBT and vPvB assessment
o additional information available
2.6. Other adverse effects
o additional information available
ECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance
	with local, regional, national and/or international regulation.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1 UN number	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	 : UN 3077
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR) Transport document description (IMDG)	 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COBALT (II) CHLORIDE HEXAHYDRATE), 9, III, (-) UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COBALT (II) CHLORIDE HEXAHYDRATE), 9, III, MARINE POLLUTANT UN 3077 Environmentally hazardous substance, solid, n.o.s. (COBALT (II) CHLORIDE HEXAHYDRATE), 9, III, MARINE POLLUTANT
Transport document description (IATA)	HEXAHYDRATE), 9, III
Transport document description (ADN) Transport document description (RID)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III
14.3. Transport hazard class(es)	
ADR	· 0

Transport hazard class(es) (ADR) Danger labels (ADR)

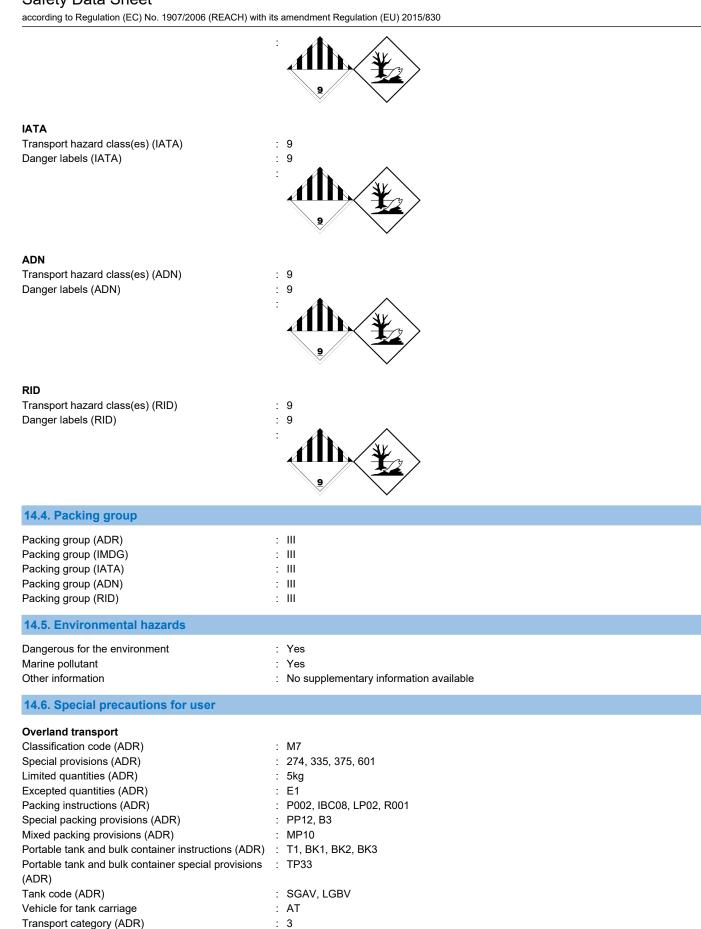


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IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG)

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Special provisions for carriage - Packages (ADR)

Special provisions for carriage - Bulk (ADR)

: V13

: VC1, VC2

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Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	¹ 90
	<u> </u>
	3077
	0011
Tunnel restriction code (ADR)	:-
EAC code	: 2Z
Turnen aut has and	
Transport by sea	. 274 225 066 067 060
Special provisions (IMDG)	: 274, 335, 966, 967, 969
Limited quantities (IMDG) Excepted quantities (IMDG)	: 5 kg : E1
Packing instructions (IMDG)	: LP02, P002
Special packing provisions (IMDG)	: PP12
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: BK1, BK2, BK3, T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW23
MFAG-No	: 171
Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y956
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 956
PCA max net quantity (IATA)	: 400kg
CAO packing instructions (IATA)	: 956
CAO max net quantity (IATA)	: 400kg
Special provisions (IATA)	: A97, A158, A179, A197, A215
ERG code (IATA)	: 9L
Inland waterway transport	
Classification code (ADN)	: M7
Special provisions (ADN)	: 274, 335, 375, 601
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T* B**
Equipment required (ADN)	: PP, A
Number of blue cones/lights (ADN)	: 0
Additional requirements/Remarks (ADN)	: * Only in the molten state. ** For carriage in bulk see also 7.1.4.1. ** * Only in the case of
	transport in bulk.
Dail transment	
Rail transport	· M7
Classification code (RID)	: M7 · 274 235 375 601
Special provisions (RID)	: 274, 335, 375, 601
Limited quantities (RID)	: 5kg : E1
Excepted quantities (RID) Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID)	: P002, 16006, 1202, R001 : PP12, B3
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T1, BK1, BK2, BK3
Portable tank and bulk container instructions (ND)	: TP33
(RID)	
Tank codes for RID tanks (RID)	: SGAV, LGBV
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W13

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Special provisions for carriage – Bulk (RID) Special provisions for carriage - Loading, unloading and handling (RID)		VC1, VC2 CW13, CW31
Colis express (express parcels) (RID)	:	CE11
Hazard identification number (RID)		90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	
28.	COBALT (II) CHLORIDE HEXAHYDRATE AR/ACS	
30.	COBALT (II) CHLORIDE HEXAHYDRATE AR/ACS	

REACH Annex XIV (Authorisation List)

COBALT (II) CHLORIDE HEXAHYDRATE AR/ACS is not on the REACH Annex XIV List

REACH Candidate List (SVHC)

COBALT (II) CHLORIDE HEXAHYDRATE AR/ACS is not on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

COBALT (II) CHLORIDE HEXAHYDRATE AR/ACS is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

COBALT (II) CHLORIDE HEXAHYDRATE AR/ACS is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

COBALT (II) CHLORIDE HEXAHYDRATE is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

15.1.2. National regulations

France

Occupational diseases				
Code	Description			
RG 70	Occupational diseases caused by cobalt and its compounds			
RG 70 BIS	Respiratory disorders due to sintered or fused metal carbide dust containing cobalt			
RG 70 TER	Primary broncho-pulmonary cancer caused by inhalation of cobalt dust associated with tungsten carbide prior to sintering			

Germany

Water hazard class (WGK)

: WGK 3, Highly hazardous to water (Classification according to AwSV; ID No. 493).

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Chemicals Prohibition Ordinance (ChemVerbotsV) Hazardous Incident Ordinance (12. BImSchV)	:	This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10). Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands		
SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen – Borstvoeding SZW-lijst van reprotoxische stoffen – Vruchtbaarheid SZW-lijst van reprotoxische stoffen – Ontwikkeling	:	The substance is not listed The substance is not listed The substance is not listed The substance is not listed The substance is not listed
Denmark		
Danish National Regulations	:	Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:			
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ATE	Acute Toxicity Estimate		
BCF	Bioconcentration factor		
BLV	Biological limit value		
BOD	Biochemical oxygen demand (BOD)		
COD	Chemical oxygen demand (COD)		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC-No.	European Community number		
EC50	Median effective concentration		
EN	European Standard		
IARC	International Agency for Research on Cancer		
ΙΑΤΑ	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
OECD	Organisation for Economic Co-operation and Development		

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Abbreviations and acronyms:			
OEL	Occupational Exposure Limit		
PBT	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
SDS	Safety Data Sheet		
STP	Sewage treatment plant		
ThOD	Theoretical oxygen demand (ThOD)		
TLM	Median Tolerance Limit		
VOC	Volatile Organic Compounds		
CAS-No.	Chemical Abstract Service number		
N.O.S.	Not Otherwise Specified		
vPvB	Very Persistent and Very Bioaccumulative		
ED	Endocrine disrupting properties		

Full text of H- and EUH-statements:			
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1		
Carc. 1A	Carcinogenicity (inhalation) Category 1A		
H302	Harmful if swallowed.		
H317	May cause an allergic skin reaction.		
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
H341	Suspected of causing genetic defects.		
H350i	May cause cancer by inhalation.		
H360FD	May damage fertility. May damage the unborn child.		
H410	Very toxic to aquatic life with long lasting effects.		
Muta. 2	Germ cell mutagenicity, Category 2		
Repr. 1B	Reproductive toxicity, Category 1B		
Resp. Sens. 1	Respiratory sensitisation, Category 1		
Skin Sens. 1	Skin sensitisation, Category 1		

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.