

## Safety Data Sheet

According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)
Issue date: 12/21/2016 Revision date: 1/2/2023 Supersedes version of: 1/13/2021 Version: 2.2

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

#### 1.1. Product identifier

Product form : Substance

Trade name : Zinc Sulphate 35,5 %

Chemical name : zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate)

 EC Index-No.
 : 030-006-00-9

 EC-No.
 : 231-793-3

 CAS-No.
 : 7446-19-7

 REACH registration No
 : 01-2119474684-27

 Product group
 : Raw material

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : Fertilizer

Use of the substance/mixture : Agriculture, forestry, fishery

Function or use category : Fertilisers

#### 1.2.2. Uses advised against

No additional information available

## 1.3. Details of the supplier of the safety data sheet

#### Supplier

Anorel NV N.V. Lintsesteenweg 632 2540 Hove – Belgium T +3234880233

anorel@anorel.net - www.anorel.net

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD 2090	+356 2545 6508	
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX	0344 892 0111	Only for healthcare professionals

## **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
Serious eye damage/eye irritation, Category 1 H318
Hazardous to the aquatic environment — Acute Hazard, Category 1 H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410

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Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Causes serious eye damage. Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

## 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP) : Danger

Hazard statements (CLP) : H302 - Harmful if swallowed.

H318 - Causes serious eye damage.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Name	Product identifier	%
zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate)	CAS-No.: 7446-19-7 EC-No.: 231-793-3 EC Index-No.: 030-006-00-9 REACH-no: 01-2119474684- 27	100

## 3.2. Mixtures

Not applicable

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

First-aid measures general	: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Keep the victim calm, avoid physical strain. If necessary seek medical advice. Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	<ul> <li>Remove person to fresh air and keep comfortable for breathing. Respiratory problems: consult a doctor/medical service.</li> </ul>
First-aid measures after skin contact	<ul> <li>Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water.</li> </ul>
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

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First-aid measures after ingestion : Drink plenty of water. Ingestion of large quantities: immediately to hospital. Do not induce

vomiting. Rinse mouth. Call a poison center or a doctor if you feel unwell.

## 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : Shortness of breath. Cough. Dry/sore throat.

Symptoms/effects after skin contact : Slight irritation.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : On ingestion in large quantities: Gastrointestinal pain. Blood in stool. nausea, vomiting.

Methemoglobinemia.

Symptoms/effects upon intravenous administration : Not expected to be a primary route of exposure.

Chronic symptoms : Inflammation/damage of the eye tissue. Skin rash/inflammation. Gastrointestinal complaints.

#### 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 : Water spray. Dry powder. Foam.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Not combustible.

Explosion hazard : No direct explosion hazard.

Reactivity in case of fire : Stable in use and storage conditions as recommended in item 7.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Precautionary measures fire : Keep upwind. Evacuate area.

Firefighting instructions : Dilute toxic gases with water spray. Fight fire with normal precautions from a reasonable

distance. Contain the extinguishing fluids by bunding.

Protection during firefighting : 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 equipment and emergency procedures

General measures : Avoid all eye and skin contact and do not breathe vapour and mist.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment. Dust cloud production: compressed

air/oxygen apparatus.

Emergency procedures : Ventilate spillage area. Mark the danger area. No flames, no sparks. Eliminate all sources of

ignition. Wash contaminated clothes. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

## 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Collect spillage.

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

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#### 6.4. Reference to other sections

For further information refer to section 13.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear

personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

Maximum storage period : 5 year Storage temperature : 10 - 30 °C

Heat and ignition sources : Keep away from ignition sources. Keep away from naked flames/heat.

Information on mixed storage : Water. Strong acids, strong bases and oxidation agents.

Storage area : Store away from heat. Store in a dry area. Store at ambient temperature. Meet the legal

requirements. Store in a well-ventilated place.

Special rules on packaging : watertight. Clean. Keep only in original container. Store in a closed container.

## 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

Zinc Sulphate 35,5 % (7446-19-7)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	8.3 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	1 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	0.83 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	1.3 mg/m³	
Long-term - systemic effects, dermal	8.3 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0.0206 mg/l	
PNEC aqua (marine water)	0.0061 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	117.8 mg/kg dwt	

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Zinc Sulphate 35,5 % (7446-19-7)		
PNEC sediment (marine water) 56.5 mg/kg dwt		
PNEC (STP)		
PNEC sewage treatment plant 0.052 mg/l		

#### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Local exhaust and general ventilation must be adequate to meet exposure standards. Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Dust production: dust mask with filter type P2. Protective clothing. Protective goggles. Gloves.

#### Personal protective equipment symbol(s):











## 8.2.2.1. Eye and face protection

#### Eye protection:

In case of dust production: protective goggles. Safety glasses

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

## 8.2.3. Environmental exposure controls

#### **Environmental exposure controls:**

Local exhaust and general ventilation must be adequate to meet exposure standards. Do not exceed the occupational exposure limits (OEL). Avoid release to the environment.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Grains. Powder.

Colour : White.
Odour : odourless.
Odour threshold : No data available pH : 4 - 6 5%

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 238 °C
Freezing point : Not applicable

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: > 500 °C Boiling point Flash point : Not applicable Auto-ignition temperature : Not applicable : No data available Decomposition temperature 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 3.35 kg/m<sup>3</sup>

Solubility : Water: ≈ 21 g/100ml

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.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 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

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Zinc Sulphate 35,5 % (7446-19-7)		
LD50 oral rat	≈ 2150 mg/kg	
LD50 dermal rat	> 2000 ml/kg	
Oldin and Said Africa		

Skin corrosion/irritation : Not classified pH: 4 – 6 5%

Serious eye damage/irritation : Causes serious eye damage.

pH: 4 – 6 5% : Not classified

Respiratory or skin sensitisation

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Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

Zinc Sulphate 35,5 % (7446-19-7)

Viscosity, kinematic Not applicable

## **SECTION 12: Ecological information**

## 12.1. Toxicity

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

Ecology - air : Not dangerous for the ozone layer.

Ecology - water : Toxic to aquatic life. May cause eutrophication at very low concentration. Severe water

pollutant (surface water).

Hazardous to the aquatic environment, short-term

acute)

ent, short-term : Very toxic to aquatic life.

Hazardous to the aquatic environment, long-term

(chronic)

: Very toxic to aquatic life with long lasting effects.

Zinc Sulphate 35,5 % (7446-19-7)		
LC50 - Fish [1]	≈ 1.7 mg/l Oncorhynchus mykiss	
LC50 - Fish [2]	2.4 mg/l	
EC50 - Crustacea [1]	0.56 mg/l 24H	
EC50 - Crustacea [2]	2] 1 mg/l	
EC50 72h - Algae [1] ≈ 0.52 mg/l Senedesmus quadricauda		

## 12.2. Persistence and degradability

Zinc Sulphate 35,5 % (7446-19-7)		
Persistence and degradability	Biodegradability. Not applicable.	

## 12.3. Bioaccumulative potential

Zinc Sulphate 35,5 % (7446-19-7)	
Bioaccumulative potential	Low bioaccumulation potential.

## 12.4. Mobility in soil

Zinc Sulphate 35,5 % (7446-19-7)	
Ecology - soil	soluble in water.

## 12.5. Results of PBT and vPvB assessment

#### Zinc Sulphate 35,5 % (7446-19-7)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## 12.6. Other adverse effects

Additional information : May contaminate water supplies

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## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Regional legislation (waste) : Dispose in a safe manner in accordance with local/national regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

European List of Waste (LoW) code : 06 03 13\* - solid salts and solutions containing heavy metals

## **SECTION 14: Transport information**

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 3077	UN 3077	UN 3077	UN 3077	UN 3077
14.2. UN proper shippin	g name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Sulphate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Sulphate)	Environmentally hazardous substance, solid, n.o.s. (Zinc Sulphate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Sulphate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Sulphate)
Transport document descr	iption			
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Sulphate), 9, III, (E)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Sulphate), 9, III, MARINE POLLUTANT	UN 3077 Environmentally hazardous substance, solid, n.o.s. (Zinc Sulphate), 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Sulphate), 9,	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Sulphate), 9,
14.3. Transport hazard	class(es)			
9	9	9	9	9
14.4. Packing group				
III	III	III	111	III
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

## 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) : M7

Special provisions (ADR) : 274, 335, 601, 375

Limited quantities (ADR) : 5kg
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Special packing provisions (ADR) : PP12, B3

Mixed packing provisions (ADR) : MP10

Portable tank and bulk container instructions (ADR) : T1, BK1, BK2

Portable tank and bulk container special provisions : TP33

(ADR)

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Tank code (ADR) : SGAV, LGBV

Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V13
Special provisions for carriage - Bulk (ADR) : VC1, VC2
Special provisions for carriage - Loading, unloading : CV13

and handling (ADR)

Hazard identification number (Kemler No.) : 90

Orange plates :

90 3077

Tunnel restriction code (ADR) : E EAC code : 2Z

Transport by sea

Special provisions (IMDG) : 274, 335, 966, 967

Limited quantities (IMDG) : 5 kg

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P002, LP02

Special packing provisions (IMDG) : PP12

IBC packing instructions (IMDG) : IBC08

IBC special provisions (IMDG) : B3

Tank instructions (IMDG) : T1, BK1, BK2, BK3

Tank special provisions (IMDG) : TP33
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A

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

ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M7

Special provisions (ADN) : 274, 335, 61

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.

Rail transport

Classification code (RID) : M7

Special provisions (RID) : 274, 335, 601

Limited quantities (RID) : 5kg
Excepted quantities (RID) : E1

Packing instructions (RID) : P002, IBC08, LP02, R001

Special packing provisions (RID) : PP12, B3

Mixed packing provisions (RID) : MP10

Portable tank and bulk container instructions (RID) : T1, BK1, BK2

Portable tank and bulk container special provisions : TP33

(RID)

## Safety Data Sheet

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Tank codes for RID tanks (RID) : SGAV, LGBV

Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W13
Special provisions for carriage – Bulk (RID) : W11
Special provisions for carriage - Loading, unloading : CW13, CW31

and handling (RID)

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)**

No REACH Annex XVII restrictions

#### **REACH Annex XIV (Authorisation List)**

Zinc Sulphate 35,5 % is not on the REACH Annex XIV List

#### **REACH Candidate List (SVHC)**

Zinc Sulphate 35,5 % is not on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Zinc Sulphate 35,5 % 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)**

Zinc Sulphate 35,5 % 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)

zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate) 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 subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

#### 15.1.2. National regulations

## Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV; ID No. 432).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

**Netherlands** 

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed SZW-lijst van reprotoxische stoffen – : The substance is not listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

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## 15.2. Chemical safety assessment

A chemical safety assessment has been carried out by the registrant A chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	CSR applicable	Added	
	Revision date	Modified	
	Supersedes	Modified	
1.1	REACH registration No	Modified	
15.2	Chemical safety assessment	Modified	

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	
BLV	Biological limit value	
CAS-No.	Chemical Abstract Service number	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
EC-No.	European Community number	
EN	European Standard	
IATA	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	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	

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Abbreviations and acronyms:	
WGK	Water Hazard Class

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H302	Harmful if swallowed.	
H318	Causes serious eye damage.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	

Safety Data Sheet (SDS), EU

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.