

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: 06020

Issue date: 4/9/2014 Revision date: 6/24/2025 Supersedes version of: 4/9/2015 Version: 1.0

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

#### 1.1. Product identifier

Product form : Substance

Trade name : SODIUM SULPHIDE FLAKES (IRON FREE) EXTRA PURE

EC-No. : 215-211-5 CAS-No. : 27610-45-3 Product code : 06020

Type of product : Inorganic compound Formula :  $Na_2S \cdot x H_2O$ 

Chemical structure : Na<sub>2</sub>S · X H<sub>2</sub>O : Na — S

| • XH<sub>2</sub>O H

Synonyms : Disodium sulphide Flakes Hydrate

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

#### Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

Use of the substance/mixture : Laboratory chemicals

Manufacture of substances

#### 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

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

Corrosive to metals, Category 1 H290
Acute toxicity (oral), Category 3 H301
Skin corrosion/irritation, Category 1 H314
Hazardous to the aquatic environment – Acute Hazard, H400

Category 1

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

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

May be corrosive to metals. Toxic if swallowed. Causes severe skin burns and eye damage. Very toxic to aquatic life.

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#### 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP) : Danger

Hazard statements (CLP) : H290 - May be corrosive to metals.

H301 - Toxic if swallowed.

H314 - Causes severe skin burns and eye damage.

H400 - Very toxic to aquatic life.

Precautionary statements (CLP) : P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection, face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water .

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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

No additional information available

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

#### 3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%
SODIUM SULPHIDE FLAKES (IRON FREE)	CAS-No.: 27610-45-3 EC-No.: 215-211-5	100

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

#### 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air

and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

First-aid measures after skin contact : Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately

call a POISON CENTER/doctor. Call a physician immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Call a physician

immediately

First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting.

Immediately call a POISON CENTER/doctor. Call a physician immediately. Do not induce vomiting.

Self protection of the first-aider : First aid workers will be equipped with suitable personal protective equipment.

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

Symptoms/effects : Causes severe skin burns and eye damage.

Symptoms/effects after inhalation : None under normal conditions. Dust of the product, if present, may cause respiratory

irritation after excessive inhalation exposure.

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Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Serious damage to eyes. Symptoms/effects after ingestion : Toxic if swallowed. Burns.

#### 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 : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water spray. Dry

powder. Foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : No fire hazard.

Explosion hazard : No direct explosion hazard. Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper

protective equipment, including respiratory protection.

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 : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent

material damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.

Do not breathe dust/fume/gas/mist/vapours/spray.

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. Evacuate unnecessary personnel.

#### 6.2. Environmental precautions

Avoid release to the environment. Very toxic to aquatic life.

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

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product. Clear up rapidly by scoop or vacuum.

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

Additional hazards when processed

Not expected to present a significant hazard under anticipated conditions of normal use.
 Ensure good ventilation of the work station. Do not breathe

Precautions for safe handling

dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal

protective equipment.

Hygiene measures

Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Always wash hands after handling the product.

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

Technical measures

: Comply with applicable regulations.

Storage conditions

: Store in original container. Keep container tightly closed. Store in a well-ventilated place. Store in corrosive resistant container with a resistant inner liner. Keep only in original

container. Store locked up.

Incompatible materials

Metals.

Packaging materials

: Store always product in container of same material as original container.

#### 7.3. Specific end use(s)

No additional information available

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

No additional information available

## 8.2. Exposure controls

#### Appropriate engineering controls

## Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

### Personal protective equipment symbol(s):







## Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses

#### **Skin protection**

### Skin and body protection:

Wear a mask

## Hand protection:

Protective gloves

#### **Respiratory protection**

#### Respiratory protection:

Wear appropriate mask

#### **Environmental exposure controls**

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

Avoid release to the environment.

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

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

Physical state Solid Colour Yellow. **Appearance** Flakes. Molecular mass 78.04 g/mol Odour Rotten eggs. Odour threshold Not available Melting point 85 - 90 °C Freezing point : Not applicable Boiling point : Not available Flammability : Non flammable. Lower explosion limit : Not applicable Upper explosion limit : Not applicable : Not applicable Flash point Auto-ignition temperature : Not applicable Decomposition temperature : Not available : 13 - 14 at 20 °C

pH solution concentration : 1 %

Viscosity, kinematic : Not applicable

Solubility : Water: 170 g/l at 20 °C - Soluble in water

Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available Density : 1.86 g/cm³ Relative density : Not available Relative vapour density at 20°C : Not applicable Particle size : Not available

## 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

May be corrosive to metals.

## 10.2. Chemical stability

Stable under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

Highly reactive material. Contact with acids liberates toxic gas.

## 10.4. Conditions to avoid

Direct sunlight. Air contact. Finely divided metals. Sparks. Heat. Open flame.

#### 10.5. Incompatible materials

metals.

#### 10.6. Hazardous decomposition products

Thermal decomposition generates: Corrosive vapours.

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#### **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Toxic if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Skin corrosion/irritation : Causes severe skin burns.

pH: 13 - 14 at 20 °C

Serious eye damage/irritation : Assumed to cause serious eye damage

pH: 13 - 14 at 20 °C

Respiratory or skin sensitisation : Not classified
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

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Viscosity, kinematic Not applicable

#### 11.2. Information on other hazards

#### Other information

Potential adverse human health effects and

: Harmful if swallowed.

symptoms

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life.

Ecology - water : Very toxic to aquatic life.

Hazardous to the aquatic environment, short–term : Very toxic to aquatic life.

(acute)

Hazardous to the aquatic environment, long-term : Not of

(chronic)

: Not classified

### 12.2. Persistence and degradability

#### **SODIUM SULPHIDE FLAKES (IRON FREE) EXTRA PURE (27610-45-3)**

Persistence and degradability Rapidly degradable

## 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Endocrine disrupting properties

No additional information available

## 12.7. Other adverse effects

No additional information available

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#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.

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

Sewage disposal recommendations : Disposal must be done according to official regulations.

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. Disposal must be done

according to official regulations.

Additional information : Do not re-use empty containers.

## **SECTION 14: Transport information**

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

#### 14.1. UN number or ID number

 UN-No. (ADR)
 : UN 1849

 UN-No. (IMDG)
 : UN 1849

 UN-No. (IATA)
 : UN 1849

 UN-No. (ADN)
 : UN 1849

 UN-No. (RID)
 : UN 1849

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : SODIUM SULPHIDE, HYDRATED
Proper Shipping Name (IMDG) : SODIUM SULPHIDE, HYDRATED
Proper Shipping Name (IATA) : Sodium sulphide, hydrated
Proper Shipping Name (ADN) : SODIUM SULPHIDE, HYDRATED
Proper Shipping Name (RID) : SODIUM SULPHIDE, HYDRATED

Transport document description (ADR) (ADR) : UN 1849 SODIUM SULPHIDE, HYDRATED, 8, II, (E), ENVIRONMENTALLY HAZARDOUS

Transport document description (IMDG) : UN 1849 SODIUM SULPHIDE, HYDRATED, 8, II, MARINE

POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA) : UN 1849 Sodium sulphide, hydrated, 8, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN) : UN 1849 SODIUM SULPHIDE, HYDRATED, 8, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID) : UN 1849 SODIUM SULPHIDE, HYDRATED, 8, II, ENVIRONMENTALLY HAZARDOUS

#### 14.3. Transport hazard class(es)

#### **ADR**

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8



#### **IMDG**

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8



#### **IATA**

Transport hazard class(es) (IATA) : 8
Danger labels (IATA) : 8

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## ADN

Transport hazard class(es) (ADN) : 8
Danger labels (ADN) : 8



#### **RID**

Transport hazard class(es) (RID) : 8
Danger labels (RID) : 8



## 14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

### 14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B

Other information : No supplementary information available

#### 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) : C6
Special provisions (ADR) : 523
Limited quantities (ADR) : 1kg
Excepted quantities (ADR) : E2

Packing instructions (ADR) : P002, IBC08

Special packing provisions (ADR) : B4
Mixed packing provisions (ADR) : MP10
Portable tank and bulk container instructions (ADR) : T3
Portable tank and bulk container special provisions : TP33

(ADR)

Orange plates

Tank code (ADR) : SGAN, L4BN

Vehicle for tank carriage : AT
Transport category (ADR) : 2
Special provisions for carriage - Packages (ADR) : V11
Hazard identification number (Kemler No.) : 80

80 1849

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

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#### Transport by sea

Limited quantities (IMDG) : 1 kg Excepted quantities (IMDG) : E2 Packing instructions (IMDG) P002 IBC packing instructions (IMDG) IBC08 IBC special provisions (IMDG) B21, B4 Tank instructions (IMDG) Т3 Tank special provisions (IMDG) **TP33** Stowage category (IMDG) Α

Segregation (IMDG) : SGG18, SG35

Properties and observations (IMDG) : Yellow-pink or white deliquescent crystals, flakes or lumps. Melting point: 50°C. Soluble in

water. Reacts violently with acids, evolving hydrogen sulphide, a toxic and flammable gas. Mildly corrosive to most metals. Causes burns to skin, eyes and mucous membranes.

MFAG-No : 153

#### Air transport

PCA Excepted quantities (IATA) : E2 PCA Limited quantities (IATA) Y844 PCA limited quantity max net quantity (IATA) : 5kg PCA packing instructions (IATA) : 859 PCA max net quantity (IATA) : 15kg CAO packing instructions (IATA) : 863 CAO max net quantity (IATA) : 50kg ERG code (IATA) : 8L

#### **Inland waterway transport**

Classification code (ADN) : C6

Special provisions (ADN) : 523

Limited quantities (ADN) : 1 kg

Excepted quantities (ADN) : E2

Equipment required (ADN) : PP, EP

Number of blue cones/lights (ADN) : 0

#### Rail transport

Classification code (RID) : C6

Special provisions (RID) : 523

Limited quantities (RID) : 1kg

Excepted quantities (RID) : E2

Packing instructions (RID) : P002, IBC08

Special packing provisions (RID) : B4

Special packing provisions (RID) : B4
Mixed packing provisions (RID) : MP10
Portable tank and bulk container instructions (RID) : T3
Portable tank and bulk container special provisions : TP33

(RID)

Tank codes for RID tanks (RID) : SGAN, L4BN

Transport category (RID) : 2

Special provisions for carriage – Packages (RID) : W11

Colis express (express parcels) (RID) : CE10

Hazard identification number (RID) : 80

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## **SECTION 15: Regulatory information**

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

#### **EU-Regulations**

#### **REACH Annex XVII (Restriction List)**

Not listed on REACH Annex XVII

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

Not listed on REACH Annex XIV (Authorisation List)

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

Not listed on the REACH Candidate List

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

Not listed on the PIC list (Regulation EU 649/2012)

#### **POP Regulation (Persistent Organic Pollutants)**

Not listed on the POP list (Regulation EU 2019/1021)

#### Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

#### Council Regulation (EC) for the control of dual-use items

Not listed on the COUNCIL REGULATION (EC) of dual-use items.

#### **Explosives Precursors Regulation (2019/1148)**

Not listed on the Explosives Precursors list (EU)

#### **Drug Precursors Regulation (273/2004)**

Not listed on the Drug Precursors list (EU)

#### **National regulations**

#### Germany

Water hazard class (WGK)

Chemicals Prohibition Ordinance (ChemVerbotsV)

: WGK 3, Highly hazardous to water (Classification according to AwSV; ID No. 188).

: 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).

#### **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

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#### **Poland**

Polish National Regulations

: Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).

Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).

The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).

Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).

Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).

Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).

The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)

Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended). Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).

ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

#### **SECTION 16: Other information**

Abbreviations and acronyms:		
ACGIH	American Conference of Government Industrial Hygienists	
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)	
CAS-No.	Chemical Abstract Service number	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
COD	Chemical oxygen demand (COD)	
CSA	Chemical safety assessment	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
ED	Endocrine disruptor	

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Abbreviations and acronyms:		
EN	European Standard	
EWC	European waste catalogue	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
Log Kow	Partition coefficient n-octanol/water (Log Kow)	
Log Pow	Partition coefficient n-octanol/water (Log Pow)	
MAK	maximum workplace concentration	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
N.O.S.	Not Otherwise Specified	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
OSHA	Occupational Safety & Health Administration	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
PPE	Personal protection equipment	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
TF	Technical function	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
TWA	Time Weighted Average	
VOC	Volatile Organic Compounds	
vPvB	Very Persistent and Very Bioaccumulative	
UFI	Unique Formula Identifier	

Full text of H- and EUH-statements:		
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Met. Corr. 1	Corrosive to metals, Category 1	
Skin Corr. 1	Skin corrosion/irritation, Category 1	
H290	May be corrosive to metals.	
H301	Toxic if swallowed.	

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Full text of H- and EUH-statements:	
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.

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.