

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Reference number: 05355
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form Substance

: POTASSIUM DICHROMATE AR Trade name

EC Index-No. : 024-002-00-6 EC-No. 231-906-6 CAS-No. 7778-50-9 Product code : 05355 K2Cr2O7 Formula

Chemical structure

Synonyms : Potassium bichromate, Dipotassium dichromate, Dichromate of potash

#### 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

Oxidising agents

#### 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

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]

Oxidising Solids, Category 2	H272
Acute toxicity (oral), Category 3	H301
Acute toxicity (dermal), Category 4	H312
Acute toxicity (inhal.), Category 2	H330
Skin corrosion/irritation, Category 1, Sub-Category 1B	H314
Respiratory sensitisation, Category 1	H334
Skin sensitisation, Category 1	H317
Germ cell mutagenicity, Category 1B	H340
Carcinogenicity, Category 1B	H350
Reproductive toxicity, Category 1B	H360FD

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Specific target organ toxicity — Single exposure, Category 3, Respiratory H335

tract irritation

Specific target organ toxicity — Repeated exposure, Category 1 H372
Hazardous to the aquatic environment — Acute Hazard, Category 1 H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410

Full text of H-statements: see section 16

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

May intensify fire; oxidiser. May cause cancer. May cause genetic defects. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Fatal if inhaled. Toxic if swallowed. Harmful in contact with skin. May cause respiratory irritation. Causes severe skin burns and eye damage. 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. 1272/2008 [CLP]

Hazard pictograms (CLP)











Signal word (CLP) : Danger

Hazard statements (CLP) : H272 - May intensify fire; oxidiser.

H301 - Toxic if swallowed.

H312 - Harmful in contact with skin.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H330 - Fatal if inhaled.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 - May cause respiratory irritation. H340 - May cause genetic defects.

H350 - May cause cancer.

H360FD - May damage fertility. May damage the unborn child.

H372 - Causes damage to organs through prolonged or repeated exposure.

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

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P220 - Keep away from clothing and other combustible materials.

P273 - Avoid release to the environment.

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

P302+P352 - IF ON SKIN: Wash with plenty of water.

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

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

Substance type : Mono-constituent

Name : POTASSIUM DICHROMATE

CAS-No. : 7778-50-9 EC-No. : 231-906-6 EC Index-No. : 024-002-00-6

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#### 3.2. Mixtures

Not applicable

#### **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. Call a physician

immediately. Call a doctor.

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

physician immediately.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with

water for several minutes. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth out with water. If you feel unwell, seek medical advice. Rinse mouth. Call a

physician immediately. Do not induce vomiting.

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

Symptoms/effects : Causes severe skin burns and eye damage. May damage fertility. May damage the unborn

child. Causes damage to organs through prolonged or repeated exposure.

Symptoms/effects after inhalation : Fatal if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

Symptoms/effects after skin contact : Harmful in contact with skin. May cause an allergic skin reaction. Burns.

Symptoms/effects after eye contact : Serious damage to eyes. Symptoms/effects after ingestion : Toxic if swallowed. Burns. Chronic symptoms : May cause cancer.

#### 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 : May intensify fire; oxidiser.

Explosion hazard : Heating may cause a fire or explosion.

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

### 5.3. Advice for firefighters

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

### 6.1.1. For non-emergency personnel

Emergency procedures : Avoid contact with skin, eyes and clothing. No open flames, no sparks, and no smoking.

Only qualified personnel equipped with suitable protective equipment may intervene. Do not

breathe dust, fume, gas, mist, spray, vapours.

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#### 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".

#### 6.2. Environmental precautions

Avoid release to the environment. Very toxic to aquatic life with long lasting effects. Notify authorities if 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. Clear up rapidly by scoop or vacuum. 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.

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

## 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No smoking. Wear personal protective equipment. 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. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust, fume, gas, mist, spray, vapours. Do not get in eyes,

on skin, or on clothing.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face

thoroughly after handling. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be

allowed out of the workplace. 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 container tightly closed. Keep in fireproof place. Store

locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Incompatible materials : combustible materials.

### 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

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#### 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:

Safety glasses

#### 8.2.2.2. Skin protection

#### Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

Wear respiratory protection. [In case of inadequate ventilation] wear respiratory protection.

#### 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 : Crystalline powder.

Molecular mass : 294.18 g/mol

Colour : Orange.

Odour : Odourless.

Odour threshold : No data available

pH : 4 (1% aqueous solution)

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

: 398 °C Melting point Freezing point : Not applicable : > 500 °C Boiling point Flash point : Not applicable Auto-ignition temperature : Not applicable : ≈ 500 °C 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 : 2.676 g/cm³

Solubility : Water: 6.5 % at 20°C
Ethanol: Insoluble
Acetone: Insoluble

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Partition coefficient n-octanol/water (Log Pow) : 5

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

Refractive index : 1.738

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

## 10.1. Reactivity

May intensify fire; oxidiser.

#### 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

Air contact. Direct sunlight. Moisture. Heat. High temperature. Overheating. Open flame. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

Combustible materials.

## 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) : Toxic if swallowed.

Acute toxicity (dermal) : Harmful in contact with skin.

Acute toxicity (inhalation) : Fatal if inhaled.

Skin corrosion/irritation : Causes severe skin burns.

pH: 4 (1% aqueous solution)

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

pH: 4 (1% aqueous solution)

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an

allergic skin reaction.

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity : May cause cancer.

Reproductive toxicity : May damage fertility. May damage the unborn child.

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

## **POTASSIUM DICHROMATE AR (7778-50-9)**

Viscosity, kinematic Not applicable

Potential adverse human health effects and : Harmful in contact with skin, Toxic if swallowed.

symptoms

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## **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. Hazardous to the aquatic environment, short-term : Very toxic to aquatic life.

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: Very toxic to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

No additional information available

## 12.3. Bioaccumulative potential

## **POTASSIUM DICHROMATE AR (7778-50-9)**

Partition coefficient n-octanol/water (Log Pow)

5

### 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

## **POTASSIUM DICHROMATE AR (7778-50-9)**

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

No additional information available

## **SECTION 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.

Ecology - waste materials : Hazardous waste due to toxicity.

## **SECTION 14: Transport information**

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

## 14.1. UN number

 UN-No. (ADR)
 : UN 3087

 UN-No. (IMDG)
 : UN 3087

 UN-No. (IATA)
 : UN 3087

 UN-No. (ADN)
 : UN 3087

 UN-No. (RID)
 : UN 3087

## 14.2. UN proper shipping name

Proper Shipping Name (ADR)

Proper Shipping Name (IMDG)

Proper Shipping Name (IMTA)

Proper Shipping Name (IATA)

Proper Shipping Name (ADN)

Proper Shipping Name (ADN)

Proper Shipping Name (RID)

SOLID, TOXIC, N.O.S.

OXIDIZING SOLID, TOXIC, N.O.S.

OXIDIZING SOLID, TOXIC, N.O.S.

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: UN 3087 OXIDIZING SOLID, TOXIC, N.O.S. (Potassium dichromate), 5.1 (6.1), II, (E), Transport document description (ADR)

**ENVIRONMENTALLY HAZARDOUS** 

Transport document description (IMDG) : UN 3087 OXIDIZING SOLID, TOXIC, N.O.S. (Potassium dichromate), 5.1 (6.1), II, MARINE

POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA) : UN 3087 Oxidizing solid, toxic, n.o.s., 5.1 (6.1), II, ENVIRONMENTALLY HAZARDOUS Transport document description (ADN)

: UN 3087 OXIDIZING SOLID, TOXIC, N.O.S., 5.1 (6.1), II, ENVIRONMENTALLY

**HAZARDOUS** 

Transport document description (RID) : UN 3087 OXIDIZING SOLID, TOXIC, N.O.S., 5.1 (6.1), II, ENVIRONMENTALLY

**HAZARDOUS** 

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

#### **ADR**

Transport hazard class(es) (ADR) : 5.1 (6.1) Danger labels (ADR) : 5.1, 6.1



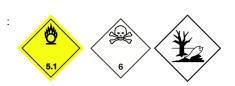
#### **IMDG**

Transport hazard class(es) (IMDG) : 5.1 (6.1) Danger labels (IMDG) : 5.1, 6.1



#### IATA

Transport hazard class(es) (IATA) : 5.1 (6.1) Danger labels (IATA) : 5.1, 6.1



## ADN

Transport hazard class(es) (ADN) : 5.1 (6.1) Danger labels (ADN) : 5.1, 6.1



### RID

Transport hazard class(es) (RID) : 5.1 (6.1) Danger labels (RID) : 5.1, 6.1



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## 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

Other information : No supplementary information available

#### 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) : OT2
Special provisions (ADR) : 274
Limited quantities (ADR) : 1kg
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P002, IBC06
Mixed packing provisions (ADR) : Mixed packing provisions (ADR) : T02

Portable tank and bulk container instructions (ADR) : T3
Portable tank and bulk container special provisions : TP33

(ADR)

Tank code (ADR) : SGAN
Tank special provisions (ADR) : TU3
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Special provisions for carriage - Packages (ADR) : V11
Special provisions for carriage - Loading, unloading : CV24, CV28

and handling (ADR)

Hazard identification number (Kemler No.) : 56

Orange plates : T

56 3087

Tunnel restriction code (ADR) : E EAC code : 1W

## Transport by sea

Special provisions (IMDG) : 274, 900 Limited quantities (IMDG) : 1 kg Excepted quantities (IMDG) : E2 Packing instructions (IMDG) : P002 IBC packing instructions (IMDG) : IBC06 : B21 IBC special provisions (IMDG) : T3 Tank instructions (IMDG) Tank special provisions (IMDG) : TP33 EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-Q Stowage category (IMDG) : B

Segregation (IMDG) : SG38, SG49, SG60

Properties and observations (IMDG) : Toxic if swallowed, by skin contact or by dust inhalation. Should be handled with care to

minimize exposure, particularly to dust.

MFAG-No : 141

#### Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y543
PCA limited quantity max net quantity (IATA) : 1kg
PCA packing instructions (IATA) : 558

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PCA max net quantity (IATA) : 5kg
CAO packing instructions (IATA) : 562
CAO max net quantity (IATA) : 25kg
Special provisions (IATA) : A3
ERG code (IATA) : 5P

#### Inland waterway transport

Classification code (ADN) : OT2
Special provisions (ADN) : 274, 802
Limited quantities (ADN) : 1 kg
Excepted quantities (ADN) : E2
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 2

#### Rail transport

Classification code (RID) : OT2 Special provisions (RID) : 274 Limited quantities (RID) : 1kg Excepted quantities (RID) : E2 : P002, IBC06 Packing instructions (RID) Mixed packing provisions (RID) : MP2 : T3 Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions : TP33 (RID)

Tank codes for RID tanks (RID): SGANSpecial provisions for RID tanks (RID): TU3Transport category (RID): 2Special provisions for carriage – Packages (RID): W11

Special provisions for carriage - Loading, unloading : CW24, CW28

and handling (RID)

Colis express (express parcels) (RID) : CE10 Hazard identification number (RID) : 56

## 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

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
28.	POTASSIUM DICHROMATE AR
29.	POTASSIUM DICHROMATE AR
30.	POTASSIUM DICHROMATE AR

Potassium dichromate is on the REACH Candidate List

Potassium dichromate is on the REACH Annex XIV List:

POTASSIUM DICHROMATE AR 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.

POTASSIUM DICHROMATE AR 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

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#### 15.1.2. National regulations

France	
Occupational diseases	
Code	Description
RG 10	Ulcerations and dermatitis caused by chromic acid, alkaline chromates and dichromates, zinc chromate and chromium sulphate
RG 10 BIS	Respiratory disorders caused by chromic acid, alkaline chromates and dichromates
RG 10 TER	Cancerous conditions caused by chromic acid and alkaline or alkaline earth chromates and dichromates and by zinc chromate

#### Germany

Water hazard class (WGK)

Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

Denmark

**Danish National Regulations** 

: WGK 3, Highly hazardous to water (Classification according to AwSV; ID No. 339)

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

: POTASSIUM DICHROMATE is listed

: POTASSIUM DICHROMATE is listed : POTASSIUM DICHROMATE is listed

: POTASSIUM DICHROMATE is listed

: POTASSIUM DICHROMATE is listed

: 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
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods

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Abbreviations and acronyms	
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
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. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), 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
Carc. 1B	Carcinogenicity, Category 1B
Muta. 1B	Germ cell mutagenicity, Category 1B
Ox. Sol. 2	Oxidising Solids, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H312	Harmful in contact with skin.

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Full text of H- and EUH-statements	
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H340	May cause genetic defects.
H350	May cause cancer.
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 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.