

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

### 1.1. Product identifier

Product form : Substance  
Trade name : ANTIMONY (METAL) POWDER EXTRA PURE  
EC-No. : 231-146-5  
CAS-No. : 7440-36-0  
Product code : 01440  
Type of product : Metallic powders  
Formula : Sb  
Chemical structure :

# Sb

Synonyms : Antimony Black; Antimony Regulus

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

#### Relevant identified uses

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](mailto:info@lobachemie.com), [www.lobachemie.com](http://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]

Carcinogenicity, Category 2 H351  
Specific target organ toxicity – Repeated exposure, Category 2 H373  
Full text of H- and EUH-statements: see section 16

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

Harmful if inhaled. Harmful if swallowed. Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS08

Signal word (CLP) : Warning

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- Hazard statements (CLP) : H351 - Suspected of causing cancer.  
H373 - May cause damage to organs through prolonged or repeated exposure.
- Precautionary statements (CLP) : P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P314 - Get medical advice/attention if you feel unwell.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type : Mono-constituent

| Name                    | Product identifier                      | %   |
|-------------------------|---|-----|
| ANTIMONY (METAL) POWDER | CAS-No.: 7440-36-0<br>EC-No.: 231-146-5 | 100 |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : 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. Allow affected person to breathe fresh air. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or a doctor if you feel unwell.
- First-aid measures after skin contact : Wash with plenty of water/... Get medical advice/attention. Wash skin with plenty of water.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
- 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.
- First-aid measures for 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 after inhalation : Harmful if inhaled.
- Symptoms/effects after skin contact : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
- Symptoms/effects after eye contact : None under normal conditions. Dust from this product may cause eye irritation.
- Symptoms/effects after ingestion : Harmful if swallowed.

### 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 : Carbon dioxide. Dry powder. Foam. Water spray.
- 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.

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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 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 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 breathing 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. Toxic to aquatic life with long lasting effects.

### 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.

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

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling : Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : 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. Always wash hands after handling the product.

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

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

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

### 7.3. Specific end use(s)

No additional information available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### National occupational exposure and biological limit values

| ANTIMONY (METAL) POWDER EXTRA PURE (7440-36-0)       |   |
|--|---|
| <b>Portugal - Occupational Exposure Limits</b>       |   |
| Local name   | Antimónio e compostos, expressos em Sb  |
| OEL TWA  | 0.5 mg/m <sup>3</sup>   |
| Regulatory reference                                 | Norma Portuguesa NP 1796:2014   |
| <b>Spain - Occupational Exposure Limits</b>          |   |
| Local name   | Antimonio elemental   |
| VLA-ED (OEL TWA)                                     | 0.5 mg/m <sup>3</sup>   |
| Regulatory reference                                 | Límites de Exposición Profesional para Agentes Químicos en España 2023. INSHT |
| <b>United Kingdom - Occupational Exposure Limits</b> |   |
| Local name   | Antimony  |
| WEL TWA (OEL TWA)                                    | 0.5 mg/m <sup>3</sup> and compounds except stibine (as Sb)                    |
| Regulatory reference                                 | EH40/2005 (Fourth edition, 2020). HSE   |

#### 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  | : Grayish black.                            |
| Appearance                                      | : Powder.                                   |
| Odour   | : Odourless.                                |
| Odour threshold                                 | : Not available                             |
| Melting point                                   | : 630 °C                                    |
| Freezing point                                  | : Not applicable                            |
| Boiling point                                   | : 1635 °C                                   |
| Flammability                                    | : Not available                             |
| Lower explosion limit                           | : Not applicable                            |
| Upper explosion limit                           | : Not applicable                            |
| Flash point                                     | : Not applicable                            |
| Auto-ignition temperature                       | : Not applicable                            |
| Decomposition temperature                       | : Not available                             |
| pH  | : Not available                             |
| pH solution                                     | : Not available                             |
| Viscosity, kinematic                            | : Not applicable                            |
| Solubility                                      | : Water: Insoluble in cold water            |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                             |
| Vapour pressure                                 | : 1 mm Hg at 886 °C                         |
| Vapour pressure at 50°C                         | : Not available                             |
| Density   | : 6.691 g/cm <sup>3</sup> at 25 °C          |
| Relative density                                | : 7.05 at 21.8 °C - OECD Test Guideline 109 |
| 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

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

Direct sunlight. Air contact. 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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified

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|                                   |  |
|-----------------------------------|--|
| Acute toxicity (dermal)           | : Not classified   |
| Acute toxicity (inhalation)       | : Not classified   |
| Skin corrosion/irritation         | : Not classified   |
| Serious eye damage/irritation     | : Not classified   |
| Respiratory or skin sensitisation | : Not classified   |
| Germ cell mutagenicity            | : Not classified   |
| Carcinogenicity                   | : Suspected of causing cancer.                                       |
| Reproductive toxicity             | : Not classified   |
| STOT-single exposure              | : Not classified   |
| STOT-repeated exposure            | : May cause damage to organs through prolonged or repeated exposure. |
| 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 symptoms | : Harmful if swallowed. |
|---|-------------------------|

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |  |
|---|--|
| Ecology - general   | : Toxic to aquatic life with long lasting effects. |
| Ecology - water   | : 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) | : Not classified                                   |

### 12.2. Persistence and degradability

#### ANTIMONY (METAL) POWDER EXTRA PURE (7440-36-0)

|                               |                    |
|-------------------------------|--------------------|
| 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

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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

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|  |  |
|--|--|
| 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 2871 |
| UN-No. (IMDG) | : UN 2871 |
| UN-No. (IATA) | : UN 2871 |
| UN-No. (ADN)  | : UN 2871 |
| UN-No. (RID)  | : UN 2871 |

#### 14.2. UN proper shipping name

|                                       |  |
|---------------------------------------|--|
| Proper Shipping Name (ADR)            | : ANTIMONY POWDER                        |
| Proper Shipping Name (IMDG)           | : ANTIMONY POWDER                        |
| Proper Shipping Name (IATA)           | : Antimony powder                        |
| Proper Shipping Name (ADN)            | : ANTIMONY POWDER                        |
| Proper Shipping Name (RID)            | : ANTIMONY POWDER                        |
| Transport document description (ADR)  | : UN 2871 ANTIMONY POWDER, 6.1, III, (E) |
| Transport document description (IMDG) | : UN 2871 ANTIMONY POWDER, 6.1, III      |
| Transport document description (IATA) | : UN 2871 Antimony powder, 6.1, III      |
| Transport document description (ADN)  | : UN 2871 ANTIMONY POWDER, 6.1, III      |
| Transport document description (RID)  | : UN 2871 ANTIMONY POWDER, 6.1, III      |

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

##### ADR

|                                  |       |
|----------------------------------|-------|
| Transport hazard class(es) (ADR) | : 6.1 |
| Danger labels (ADR)              | : 6.1 |



##### IMDG

|                                   |       |
|-----------------------------------|-------|
| Transport hazard class(es) (IMDG) | : 6.1 |
| Danger labels (IMDG)              | : 6.1 |



##### IATA

|                                   |       |
|-----------------------------------|-------|
| Transport hazard class(es) (IATA) | : 6.1 |
| Danger labels (IATA)              | : 6.1 |



##### ADN

|                                  |       |
|----------------------------------|-------|
| Transport hazard class(es) (ADN) | : 6.1 |
| Danger labels (ADN)              | : 6.1 |

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### RID

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



### 14.4. Packing group


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

### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-A  
Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : T5  
Limited quantities (ADR) : 5kg  
Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P002, IBC08, LP02, R001  
Special packing provisions (ADR) : B3  
Mixed packing provisions (ADR) : MP10  
Portable tank and bulk container instructions (ADR) : T1  
Portable tank and bulk container special provisions (ADR) : TP33  
Tank code (ADR) : SGAH, L4BH  
Tank special provisions (ADR) : TU15, TE19  
Vehicle for tank carriage : AT  
Transport category (ADR) : 2  
Special provisions for carriage - Bulk (ADR) : VC1, VC2, AP7  
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13, CV28  
Special provisions for carriage - Operation (ADR) : S9  
Hazard identification number (Kemler No.) : 60  
Orange plates :   
Tunnel restriction code (ADR) : E  
EAC code : 2X

#### Transport by sea

Limited quantities (IMDG) : 5 kg  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P002, LP02  
IBC packing instructions (IMDG) : IBC08  
IBC special provisions (IMDG) : B3



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|                                    |   |
|------------------------------------|---|
| Tank instructions (IMDG)           | : T1  |
| Tank special provisions (IMDG)     | : TP33  |
| Stowage category (IMDG)            | : A   |
| Properties and observations (IMDG) | : Metallic antimony in the form of a fine grey powder. Insoluble in water. Toxic if swallowed, by skin contact or by dust inhalation. |
| MFAG-No                            | : 170   |

### Air transport

|  |         |
|--|---------|
| PCA Excepted quantities (IATA)               | : E1    |
| PCA Limited quantities (IATA)                | : Y645  |
| PCA limited quantity max net quantity (IATA) | : 10kg  |
| PCA packing instructions (IATA)              | : 670   |
| PCA max net quantity (IATA)                  | : 100kg |
| CAO packing instructions (IATA)              | : 677   |
| CAO max net quantity (IATA)                  | : 200kg |
| ERG code (IATA)                              | : 6L    |

### Inland waterway transport

|                                   |          |
|-----------------------------------|----------|
| Classification code (ADN)         | : T5     |
| Special provisions (ADN)          | : 802    |
| Limited quantities (ADN)          | : 5 kg   |
| Excepted quantities (ADN)         | : E1     |
| Equipment required (ADN)          | : PP, EP |
| Number of blue cones/lights (ADN) | : 0      |

### Rail transport

|   |                           |
|---|---------------------------|
| Classification code (RID)   | : T5                      |
| Limited quantities (RID)  | : 5kg                     |
| Excepted quantities (RID)   | : E1                      |
| Packing instructions (RID)  | : P002, IBC08, LP02, R001 |
| Special packing provisions (RID)  | : B3                      |
| Mixed packing provisions (RID)  | : MP10                    |
| Portable tank and bulk container instructions (RID)                     | : T1                      |
| Portable tank and bulk container special provisions (RID)               | : TP33                    |
| Tank codes for RID tanks (RID)  | : SGAH, L4BH              |
| Special provisions for RID tanks (RID)                                  | : TU15                    |
| Transport category (RID)  | : 2                       |
| Special provisions for carriage – Bulk (RID)                            | : VC1, VC2, AP7           |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW13, CW28, CW31        |
| Colis express (express parcels) (RID)                                   | : CE11                    |
| Hazard identification number (RID)                                      | : 60                      |

## 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

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

Not listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

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### 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 (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 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 the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### National regulations

#### France

| Occupational diseases |  |
|-----------------------|--|
| Code                  | Description  |
| RG 73                 | Occupational diseases caused by antimony and its derivatives |

#### Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV).  
Hazardous Incident Ordinance (12. BImSchV) : Is not subject to 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 – Vruchtbaarheid : The substance is not listed  
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  
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)  |

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### Abbreviations and acronyms:

|         |  |
|---------|--|
| 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                                       |
| 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 disruptor  |

### Full text of H- and EUH-statements:

|           |  |
|-----------|--|
| Carc. 2   | Carcinogenicity, Category 2  |
| H351      | Suspected of causing cancer.                                       |
| H373      | May cause damage to organs through prolonged or repeated exposure. |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2     |

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.