

# BENZYL ALCOHOL GC REFERENCE STANDARD

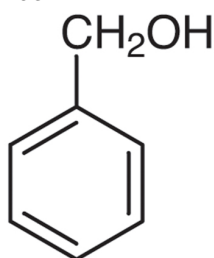
## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 6/18/2025 Version: 1.0

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

#### 1.1. Product identifier

|                    |                                        |
|--------------------|----------------------------------------|
| Product form       | : Substance                            |
| Trade name         | : BENZYL ALCOHOL GC REFERENCE STANDARD |
| IUPAC name         | : Phenyl methanol                      |
| EC Index-No.       | : 603-057-00-5                         |
| EC-No.             | : 202-859-9                            |
| CAS-No.            | : 100-51-6                             |
| Product code       | : GS015                                |
| Type of product    | : Aromatic alcohol                     |
| Formula            | : C <sub>7</sub> H <sub>8</sub> O      |
| Chemical structure | :                                      |



|          |                                                                            |
|----------|----------------------------------------------------------------------------|
| Synonyms | : Benzenemethanol, Phenyl carbinol, α-Cresol, α-Toluenol, α-Hydroxytoluene |
|----------|----------------------------------------------------------------------------|

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

##### Relevant identified uses

|                              |                                   |
|------------------------------|-----------------------------------|
| Use of the substance/mixture | : Laboratory chemicals<br>Reagent |
|------------------------------|-----------------------------------|

#### 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]

|                                                    |      |
|----------------------------------------------------|------|
| Acute toxicity (oral), Category 4                  | H302 |
| Acute toxicity (inhalation:dust,mist) Category 4   | H332 |
| Serious eye damage/eye irritation, Category 2      | H319 |
| Full text of H- and EUH-statements: see section 16 |      |

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

Harmful if inhaled. Harmful if swallowed. Causes serious eye irritation.

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### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H302+H332 - Harmful if swallowed or if inhaled.  
H319 - Causes serious eye irritation.

Precautionary statements (CLP)

: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.  
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.  
P337+P313 - If eye irritation persists: Get medical advice/attention.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type

: Mono-constituent

| Name           | Product identifier                                                   | %   |
|----------------|----------------------------------------------------------------------|-----|
| BENZYL ALCOHOL | CAS-No.: 100-51-6<br>EC-No.: 202-859-9<br>EC Index-No.: 603-057-00-5 | 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. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact

: 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. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion

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

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 after inhalation

: Harmful if inhaled.

Symptoms/effects after skin contact

: None under normal conditions.

Symptoms/effects after eye contact

: Eye irritation.

Symptoms/effects after ingestion

: Harmful if swallowed.

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

Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.  
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 : Stop leak if safe to do so. 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. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

##### 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".  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.  
Methods for cleaning up : Take up liquid spill into absorbent material.  
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 : Use only outdoors or in a well-ventilated area. Avoid breathing 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. Always wash hands after handling the product.

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

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| Technical measures  | : Keep in a cool, well-ventilated place away from heat.                     |
| Storage conditions  | : Keep cool. Protect from sunlight.                                         |
| Packaging materials | : Store always product in container of same material as original container. |

#### Switzerland

|                    |                      |
|--------------------|----------------------|
| Storage class (LK) | : LK 10/12 - Liquids |
|--------------------|----------------------|

### 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 protective 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.

## SECTION 9: Physical and chemical properties

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

|                 |                        |
|-----------------|------------------------|
| Physical state  | : Liquid               |
| Colour          | : Colourless.          |
| Appearance      | : Clear liquid.        |
| Molecular mass  | : 108.14 g/mol         |
| Odour           | : faint aromatic odor. |
| Odour threshold | : Not available        |

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|                                                 |                                            |
|-------------------------------------------------|--------------------------------------------|
| Melting point                                   | : Not applicable                           |
| Freezing point                                  | : -16 – -13 °C                             |
| Boiling point                                   | : 203 – 205 °C                             |
| Flammability                                    | : Non flammable.                           |
| Lower explosion limit                           | : Not available                            |
| Upper explosion limit                           | : Not available                            |
| Flash point                                     | : 96 °C                                    |
| Auto-ignition temperature                       | : 435 °C                                   |
| Decomposition temperature                       | : Not available                            |
| pH                                              | : Not available                            |
| Viscosity, kinematic                            | : 4.833 mm <sup>2</sup> /s                 |
| Viscosity, dynamic                              | : 5.05 mPa·s at 25 °C                      |
| Solubility                                      | : Water: 33 g/l at 20°C - Soluble in water |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                            |
| Partition coefficient n-octanol/water (Log Pow) | : 1.05 at 20°C                             |
| Vapour pressure                                 | : 0.125 hPa at 20°C                        |
| Vapour pressure at 50°C                         | : Not available                            |
| Density                                         | : 1.045 g/cm <sup>3</sup> at 20°C          |
| Relative density                                | : Not available                            |
| Relative vapour density at 20°C                 | : 3.72 (Air = 1)                           |
| Particle characteristics                        | : Not applicable                           |

### 9.2. Other information

#### Other safety characteristics

Refractive index : 1.536 – 1.542 (20°C, 589 nm)

## 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 hazard classes as defined in Regulation (EC) No 1272/2008

|                                   |                                             |
|-----------------------------------|---------------------------------------------|
| Acute toxicity (oral)             | : Harmful if swallowed.                     |
| Acute toxicity (dermal)           | : Not classified                            |
| Acute toxicity (inhalation)       | : Inhalation:dust,mist: Harmful if inhaled. |
| Skin corrosion/irritation         | : Not classified                            |
| Serious eye damage/irritation     | : Causes serious eye irritation.            |
| Respiratory or skin sensitisation | : Not classified                            |
| Germ cell mutagenicity            | : Not classified                            |

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|                        |                  |
|------------------------|------------------|
| Carcinogenicity        | : Not classified |
| Reproductive toxicity  | : Not classified |
| STOT-single exposure   | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard      | : Not classified |

### BENZYL ALCOHOL GC REFERENCE STANDARD (100-51-6)

|                      |             |
|----------------------|-------------|
| Viscosity, kinematic | 4.833 mm²/s |
|----------------------|-------------|

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                                           |                                                                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| 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

### BENZYL ALCOHOL GC REFERENCE STANDARD (100-51-6)

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

### 12.3. Bioaccumulative potential

### BENZYL ALCOHOL GC REFERENCE STANDARD (100-51-6)

|                                                 |              |
|-------------------------------------------------|--------------|
| Partition coefficient n-octanol/water (Log Pow) | 1.05 at 20°C |
|-------------------------------------------------|--------------|

### 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.                                    |
| 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 | : Disposal must be done according to official regulations.                                    |
| Additional information                     | : Do not re-use empty containers.                                                             |

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### SECTION 14: Transport information

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

|       |                                                                                                                                                |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------|
| ADR:  | NOT SUBJECT                                                                                                                                    |
| IMDG: | NOT SUBJECT (Not subject to the provisions of IMDG but may be subject to provisions governing the transport of dangerous goods by other modes) |
| ADN:  | NOT SUBJECT                                                                                                                                    |
| RID:  | NOT SUBJECT TO RID                                                                                                                             |

#### 14.1. UN number or ID number

|               |           |
|---------------|-----------|
| UN-No. (ADR)  | : UN 3334 |
| UN-No. (IMDG) | : UN 3334 |
| UN-No. (IATA) | : UN 3334 |
| UN-No. (ADN)  | : UN 3334 |
| UN-No. (RID)  | : UN 3334 |

#### 14.2. UN proper shipping name

|                                            |                                                                      |
|--------------------------------------------|----------------------------------------------------------------------|
| Proper Shipping Name (ADR)                 | : Aviation regulated liquid, n.o.s.                                  |
| Proper Shipping Name (IMDG)                | : AVIATION REGULATED LIQUID, N.O.S.                                  |
| Proper Shipping Name (IATA)                | : Aviation regulated liquid, n.o.s.                                  |
| Proper Shipping Name (ADN)                 | : aviation regulated liquid, n.o.s.                                  |
| Proper Shipping Name (RID)                 | : Aviation regulated liquid, n.o.s.                                  |
| Transport document description (ADR) (ADR) | : UN 3334 Aviation regulated liquid, n.o.s. (Benzyl alcohol), 9      |
| Transport document description (IMDG)      | : UN 3334 AVIATION REGULATED LIQUID, N.O.S. (Benzyl alcohol), 9      |
| Transport document description (IATA)      | : UN 3334 Aviation regulated liquid, n.o.s. (Benzyl alcohol), 9, III |
| Transport document description (ADN)       | : UN 3334 aviation regulated liquid, n.o.s., 9                       |
| Transport document description (RID)       | : UN 3334 Aviation regulated liquid, n.o.s., 9                       |

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

##### ADR

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADR) | : 9 |
|----------------------------------|-----|

##### IMDG

|                                   |     |
|-----------------------------------|-----|
| Transport hazard class(es) (IMDG) | : 9 |
| Danger labels (IMDG)              | : 9 |



##### IATA

|                                   |     |
|-----------------------------------|-----|
| Transport hazard class(es) (IATA) | : 9 |
| Danger labels (IATA)              | : 9 |



##### ADN

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADN) | : 9 |
|----------------------------------|-----|

##### RID

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (RID) | : 9 |
|----------------------------------|-----|

#### 14.4. Packing group

|                      |                  |
|----------------------|------------------|
| Packing group (ADR)  | : Not applicable |
| Packing group (IMDG) | : Not applicable |
| Packing group (IATA) | : III            |
| Packing group (ADN)  | : Not applicable |

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Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : M11  
EAC code : 2Z

#### Transport by sea

Special provisions (IMDG) : 960  
Stowage category (IMDG) : None  
Properties and observations (IMDG) : Not subject to the provisions of this Code but may be subject to provisions governing the transport of dangerous goods by other modes.

#### Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y964  
PCA limited quantity max net quantity (IATA) : 30kgG  
PCA packing instructions (IATA) : 964  
PCA max net quantity (IATA) : 450L  
CAO packing instructions (IATA) : 964  
CAO max net quantity (IATA) : 450L  
Special provisions (IATA) : A27  
ERG code (IATA) : 9A

#### Inland waterway transport

Classification code (ADN) : M11

#### Rail transport

Classification code (RID) : M11

### 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)

| EU restriction list (REACH Annex XVII) |                                      |
|----------------------------------------|--------------------------------------|
| Reference code                         | Applicable on                        |
| 3(b)                                   | BENZYL ALCOHOL GC REFERENCE STANDARD |

##### 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)



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### 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

#### Austria

Ordinance on Flammable Liquids (VbF) : Not classified.

#### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).  
Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 216).  
Major Accidents Ordinance (12. BImSchV) : Is not listed in the Major Accidents 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

Class for fire hazard : Class III-1  
Store unit : 50 liter  
Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed

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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)

### Spain

Royal Decree 665/1997

: Is not subject to the Royal Decree 665/1997

## 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                                                                  |

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| Abbreviations and acronyms: |                                                                              |
|-----------------------------|------------------------------------------------------------------------------|
| ED                          | Endocrine disruptor                                                          |
| 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. 4<br>(Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral)                    | Acute toxicity (oral), Category 4                |
| Eye Irrit. 2                           | Serious eye damage/eye irritation, Category 2    |
| H302                                   | Harmful if swallowed.                            |

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| Full text of H- and EUH-statements: |                                |
|-------------------------------------|--------------------------------|
| H319                                | Causes serious eye irritation. |
| H332                                | Harmful if inhaled.            |

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.