

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: 2460B Issue date: 5/29/2024 Revision date: 5/29/2024 Supersedes version of: 5/18/2016 Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Product form • Substance Trade name CALCIUM ACETATE HYDRATE AR CAS-No. 114460-21-8 Product code 2460B Type of product Organic compound (CH3COO)2Ca · X H2O Formula 2 Chemical structure Ca<sup>2+</sup> • xH<sub>2</sub>O H<sub>2</sub>C Synonyms : Calcium diacetate Hydrate, Calcium ethanoate Hydrate 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 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 : + 91 22 6663 6663 (9:00am - 6:00 pm) Emergency number **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified Adverse physicochemical, human health and environmental effects To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice. 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] No labelling applicable

Nordic countries regulation

Denmark MAL code

: 00-3 (Executive Order No. 301 from 1993)

## 2.3. Other hazards

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

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| SECTION 3: Composition/information on ingredients |                      |     |
|---|----------------------|-----|
| 3.1. Substances                                   |                      |     |
| Substance type :                                  | Mono-constituent     |     |
| Name  | Product identifier   | %   |
| CALCIUM ACETATE HYDRATE                           | CAS-No.: 114460-21-8 | 100 |
| 3.2. Mixtures                                     |                      |     |

Not applicable

| SECTION 4: First aid measures  |   |
|--|---|
| 4.1. Description of first aid measures   |   |
| First-aid measures general<br>First-aid measures after inhalation  | <ul> <li>If you feel unwell, seek medical advice.</li> <li>Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.</li> </ul> |
| First-aid measures after skin contact  | : Wash with plenty of water/ Wash contaminated clothing before reuse. 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. Do not induce vomiting. Call a poison center or a doctor if you feel unwell.   |
| 4.2. Most important symptoms and effects,  | both acute and delayed  |
| Symptoms/effects after inhalation<br>Symptoms/effects after skin contact<br>Symptoms/effects after eye contact<br>Symptoms/effects after ingestion | <ul> <li>May cause respiratory irritation.</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>None under normal conditions.</li> </ul>   |

## 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<br>Unsuitable extinguishing media                      | <ul><li>Carbon dioxide. Dry powder. Foam. Water spray.</li><li>Do not use a heavy water stream.</li></ul>   |  |
| 5.2. Special hazards arising from the substance or mixture                          |   |  |
| Fire hazard<br>Explosion hazard<br>Hazardous decomposition products in case of fire | <ul> <li>No fire hazard.</li> <li>No direct explosion hazard.</li> <li>Toxic fumes may be released.</li> </ul>  |  |
| 5.3. Advice for firefighters  |   |  |
| Firefighting instructions Protection during firefighting                            | <ul> <li>Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.</li> <li>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.</li> </ul> |  |

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| 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.   |
| 6.1.1. For non-emergency personnel                                       |   |
| Protective equipment   | : Wear recommended personal protective equipment.   |
| Emergency procedures   | : Ventilate spillage area. Evacuate unnecessary personnel.  |
| 6.1.2. For emergency responders  |   |
| Protective equipment   | : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".  |
| Emergency procedures   | : Evacuate unnecessary personnel.   |
| 6.2. Environmental precautions   |   |
| Avoid release to the environment.  |   |
| 6.3. Methods and material for containmen                                 | t and cleaning up   |
| For containment<br>Methods for cleaning up                               | <ul> <li>Using a clean shovel, put the material in a dry container and cover without compressing it.</li> <li>Mechanically recover the product. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.</li> </ul> |
| 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<br>Precautions for safe handling | <ul> <li>Not expected to present a significant hazard under anticipated conditions of normal use.</li> <li>Wear personal protective equipment. Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area. Do not breathe vapours.</li> </ul> |
| Hygiene measures   | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.   |
| 7.2. Conditions for safe storage, including any incompatibilities  |   |
| Technical measures<br>Storage conditions<br>Packaging materials    | <ul> <li>Keep in a cool, well-ventilated place away from heat.</li> <li>Keep container tightly closed. Store in a well-ventilated place.</li> <li>Store always product in container of same material as original container.</li> </ul>                              |

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

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## 8.1.4. DNEL and PNEC

No additional information available

## 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:

Wear recommended personal protective equipment.

Personal protective equipment symbol(s):



## 8.2.2.1. Eye and face protection

**Eye protection:** Chemical goggles or safety glasses

### 8.2.2.2. Skin protection

Skin and body protection: Wear a mask

Hand protection: Protective gloves

#### 8.2.2.3. Respiratory protection

**Respiratory protection:** Wear appropriate mask

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 phys              | cal and chemical properties |
| Physical state                              | : Solid                     |
| Colour                                      | : White to off white.       |
| Appearance                                  | : Powder.                   |
| Molecular mass                              | : 158.17 g/mol              |
| Odour                                       | : slight acetic acid odor.  |
| Odour threshold                             | : Not available             |
| Melting point                               | : 160 °C (Decomposes)       |
| Freezing point                              | : Not applicable            |
| Boiling point                               | : Not available             |
| Flammability                                | : Non flammable.            |
| Lower explosion limit                       | : Not applicable            |
| Upper explosion limit                       | : Not applicable            |
| Flash point                                 | Not applicable              |

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| Auto-ignition temperature                       | : 340 °C                                     |
|---|--|
| Decomposition temperature                       | : > 160 °C                                   |
| pH  | : 7-9  |
| pH solution concentration                       | : 5 %  |
| Viscosity, kinematic                            | : Not applicable                             |
| Solubility                                      | : Water: 100 g/l at 25 °C - Soluble in water |
|   | Ethanol: Slightly soluble                    |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                              |
| Vapour pressure                                 | : Not available                              |
| Vapour pressure at 50°C                         | : Not available                              |
| Density   | : 1.52 g/cm³ at 20 °C                        |
| Relative density                                | : Not available                              |
| Relative vapour density at 20°C                 | : Not applicable                             |
| Particle size                                   | : Not available                              |
|   |  |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

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** 

Air contact. Direct sunlight. 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)<br>Acute toxicity (dermal) | : Not classified<br>: Not classified |
|--|--------------------------------------|
| Acute toxicity (inhalation)                      | : Not classified                     |
| Skin corrosion/irritation                        | : Not classified<br>pH: 7 – 9        |
| Serious eye damage/irritation                    | : Not classified<br>pH: 7 – 9        |
| Respiratory or skin sensitisation                | : Not classified                     |
| Germ cell mutagenicity                           | : Not classified                     |
| Carcinogenicity                                  | : Not classified                     |
| Reproductive toxicity                            | : Not classified                     |

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| STOT-single exposure                     | : Not classified |  |
|--|------------------|--|
| STOT-repeated exposure                   | : Not classified |  |
| Aspiration hazard                        | : Not classified |  |
| CALCIUM ACETATE HYDRATE AR (114460-21-8) |                  |  |
| Viscosity, kinematic                     | Not applicable   |  |
| 11.2. Information on other hazards       |                  |  |

No additional information available

| SECTION 12: Ecological information                         |   |
|--|---|
| 12.1. Toxicity   |   |
| Hazardous to the aquatic environment, short–term : (acute) | The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.<br>Not classified |
| 12.2. Persistence and degradability                        |   |
| CALCIUM ACETATE HYDRATE AR (114460-2                       | 1-8)  |
| 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.  |  |
| 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 | <ul> <li>Comply with applicable regulations for solid waste disposal. Disposal must be done<br/>according to official regulations.</li> </ul> |  |
| Additional information                     | : Do not re-use empty containers.   |  |

## SECTION 14: Transport information

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

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|--|--|
| 14.1. UN number or ID number   |  |
| Not regulated for transport  |  |
| 14.2. UN proper shipping name  |  |
| Proper Shipping Name (ADR)<br>Proper Shipping Name (IMDG)<br>Proper Shipping Name (IATA)<br>Proper Shipping Name (ADN)<br>Proper Shipping Name (RID) | <ul> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> </ul>                        |
| 14.3. Transport hazard class(es)   |  |
| ADR<br>Transport hazard class(es) (ADR)  | : Not regulated  |
| IMDG<br>Transport hazard class(es) (IMDG)  | : Not regulated  |
| IATA<br>Transport hazard class(es) (IATA)  | : Not regulated  |
| ADN<br>Transport hazard class(es) (ADN)  | : Not regulated  |
| RID<br>Transport hazard class(es) (RID)  | : Not regulated  |
| 14.4. Packing group  |  |
| Packing group (ADR)<br>Packing group (IMDG)<br>Packing group (IATA)<br>Packing group (ADN)<br>Packing group (RID)                                    | <ul> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> </ul> |
| 14.5. Environmental hazards  |  |
| Other information  | : No supplementary information available   |
| 14.6. Special precautions for user   |  |
| Overland transport<br>Not regulated  |  |
| Transport by sea<br>Not regulated  |  |
| Air transport<br>Not regulated   |  |
| Inland waterway transport<br>Not regulated   |  |
| Rail transport<br>Not regulated  |  |
| 14.7. Maritime transport in bulk according   | g to IMO instruments   |
| Not applicable   |  |

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## **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

**REACH Annex XVII (Restriction List)** 

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

#### 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)

#### 15.1.2. National regulations

#### Germany

| Water hazard class (WGK)                                | : Not classified according to Regulation Governing Systems for Handling Substances<br>Hazardous to Waters (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 –<br>Vruchtbaarheid | : The substance is not listed   |
| SZW-lijst van reprotoxische stoffen – Ontwikkeling      | : The substance is not listed   |
| Denmark   |   |
| MAL code  | : 00-3 (Executive Order No. 301 from 1993)  |
|   |   |

### 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             |

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| ATEAcute Toxicity EstimateBCFBioconcentration factorBLVBiological Inity alueBODBiochemical oxygen demand (BOD)CDDChemical oxygen demand (CDD)DMELDerived Minimal Effect levelDNELBiochemical oxygen demand (CDD)DNELBiochemical oxygen demand (CDD)DNELBiochemical oxygen demand (CDD)COMBiochemical oxygen demand (CDD)DNELBiochemical oxygen demand (CDD)ECNo.Biochemical ScienceECNo.Biochemical ScienceECNo.Biochemical ScienceIARCIntentional Agency for Research on CancerIARCIntentional Adritime Dangerous GoodsIARGIntentional Maritime Dangerous GoodsLOSDMedian tehtal concentrationLOSLKoesto Observed Adverse Effect LevelNAELNocesto Observed Adverse Effect LevelNAELNocesto Adverse Effect ConcentrationNAELNocestored Adverse Effect LevelNAELNochesrved Effect ConcentrationNAELNochesrved Effect ConcentrationNAELNochesrved Effect ConcentrationNAELNochesrved Information and DevelopmentOELObserved Informational Carriage of Dangerous Goods by RailStrictNochesrved Informational Carriage of Dangerous Goods by RailNDESaladions concentrationNDENochestorentrationStrictNochestorentrationStrictNochestorentrationNDENochestorentrationStrictNoc  | Abbreviations and acronyms: |  |  |
|---|-----------------------------|--|--|
| BIV         Biological limit value           BOD         Biochemical oxygen demand (BOD)           COD         Chemical oxygen demand (COD)           DMEL         Derived Minimal Effect level           DNEL         Derived No Effect Level           CANO         European Community number           ECS0         Median effective oncentration           ECS0         Median effective oncentration           EXT         International Agency for Research on Cancer           IATA         International Agency for Research on Cancer           IMDG         International Admitime Dangerous Goods           LDS0         Median lethal concentration           LDS0         Median lethal concentration           NAEC         No-Observed Adverse Effect Level           NAEC         No-Observed Adverse Effect Level           NAEC         No-Observed Effect Concentration           NAEC         No-Observed Effect Concentration           NAEC         No-Observed Effect Concentration           NAEC         No-Observed Effect Concentration           NOEC         No-Observed Effect Concentration           NEC         Peristent Bioaccumulative Toxic           PREC         Peristent Bioaccumulative Toxic           Strip Data Shefel         Soneonencommunit      | ATE                         | Acute Toxicity Estimate  |  |
| BODBiochemical oxygen demand (BOD)CODChemical oxygen demand (COD)DNELDerived Minimal Effect levelDNELDerived-No Effect LevelECAno.European Community numberECS0Median effective concentrationBIAEuropean StandardIARCIternational Agency for Research on CancerIARAInternational Agency for Research on CancerIASAMedian lethal doseIAGALInternational CancerIARANo-Observed Adverse Effect LevelNOAECNo-Observed Effect ConcentrationOGEDOrganisation for Economic Co-operation and DevelopmentOECDOrganisation for Economic Conger Jangerous Goods by RallRIDResearch BaseStorSafey Das ShetStorSafey Das Shet <td>BCF</td> <td>Bioconcentration factor</td> | BCF                         | Bioconcentration factor  |  |
| CODChemical oxygen demand (COD)DMELDerived Minimal Effect tevelDNELDerived-No Effect LevelEC-NoEuropean Community numberECS0Median effective concentrationENEuropean StandardIARCInternational Agency for Research on CancerIATAInternational Art Transport AssociationINDGMedian effective concentrationIDS0Median effective concentrationIDS0Median lethal concentrationIDS0Median lethal concentrationLOS0Median lethal doseLOAELLowest Observed Adverse Effect LevelNAECNo-Observed Adverse Effect LevelNAECNo-Observed Adverse Effect LevelNOAELOccupational Effect ConcentrationOCD0Organisation for Economic Co-operation and DevelopmentOEDOccupational Exposure LimitPNECPerioted No-Effect ConcentrationRDGeuglations concerning the International Carriage of Dangerous Goods by RallSISSafey Data ShetSISSafey Data ShetThordNeoretical oxygen demand (TND)TIMMedian Tolerance LimitVoCValial Organic CompoundsCostanceValial CompoundsCostanceValial Organic   | BLV                         | Biological limit value   |  |
| DMELDerived Minimal Effect levelDNELDerived-No Effect LevelEC-No.European Community numberEC50Median effective concentrationENEuropean StandardIARCInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Air Transport AssociationIDGEMedian lethal concentrationLC50Median lethal concentrationLC50Median lethal concentrationLC50Median lethal concentrationNAECNo-Observed Adverse Effect LevelNAECNo-Observed Adverse Effect LevelNAECNo-Observed Adverse Effect LevelNAECNo-Observed Effect ConcentrationNOECOcupational Exposure LimitPRECOcupational Exposure LimitPRECPresistent Bioaccumulative ToxicPRECServed methal ConcentrationNDEServed International Carriage of Dangerous Goods by RailSDSSelve Das Presitent International Carriage of Dangerous Goods by RailSDSSelve Das ResetThODTheoretical congentrationTDDNo-Effect ConcentrationTDDNo-Effect ConcentrationSDSSelve Das SheetSDSSelve Das SheetTDDTheoretical congenting the International Carriage of Dangerous Goods by RailTDDTheoretical congent of Theoretical congent of Dangerous Goods by RailSDSSelve Das SheetTDDTheoretical congent of Theoretical congent of Dangerous Goods by Rail </td <td>BOD</td> <td>Biochemical oxygen demand (BOD)</td>         | BOD                         | Biochemical oxygen demand (BOD)  |  |
| DFLEDerived-No Effect LevelEC-No.European Community numberEC50Median effective concentrationENEuropean StandardIARCInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Alar Transport AssociationINDGInternational Maritime Dangerous GoodsLC50Median Iethal concentrationLD50Median Iethal doseLOAELLowest Observed Adverse Effect LevelNAECNo-Observed Adverse Effect LevelNAECNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOAELOccupational Exposure LimitPRECRegulations concerning the Internation and DevelopmentOELDOccupational Exposure LimitPRECRegulations concerning the International Carriage of Dangerous Goods by RailSISSatey Data SheetSISSatey Data SheetTIMMedian Tolerance LimitVOCVoatile Organication (ThOD)TLMMedian Tolerance LimitNOSVoatile Organication CompoundsKaS-No.Not Otherwise SpecifiedVoSVoatile Organica SpecifiedVoSVoatile SpecifiedVoSVorgerstent Allowaccumulative  | COD                         | Chemical oxygen demand (COD)   |  |
| CeNo.European Community numberECS0Median effective concentrationENEuropean StandardIARCInternational Agency for Research on CancerIARAInternational Agency for Research on CancerIATAInternational Air Transport AssociationINDGInternational Maritime Dangerous GoodsLCS0Median lethal concentrationLDS0Median lethal doseLOAELIovest Observed Adverse Effect LevelNAECNo-Observed Adverse Effect LevelNAECNo-Observed Adverse Effect LevelNOAELOcupational Exposure LimitOECDOrganisation for Economic Co-operation and DevelopmentOELDOcupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECRegulations concentrationSSSafety Data SheetSTPSafety Data SheetTMDInternational Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSafety Data SheetTMDInternational CompoundsCAS-No.Voltalior CompoundsNoS.Not Dervice DervolutionNOS.Not Dervise SpecifiedNoS.Not Dervise SpecifiedNoS.N  | DMEL                        | Derived Minimal Effect level   |  |
| ECS0Median effective concentrationENEuropean StandardIARCInternational Agency for Research on CancerIARAInternational Agency for Research on CancerIATAInternational Air Transport AssociationIMDGInternational Air Transport AssociationIMDGInternational Air Transport AssociationIADGMedian lethal concentrationLS0Median lethal doseLOAELLowest Observed Adverse Effect LevelNAECNo-Observed Adverse Effect LevelNAECNo-Observed Effect ConcentrationNOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPNECPersistent Bioaccumulative ToxicPNECSafety Data SheetSTPSafety Data SheetTMDSafety Data SheetTMDNeoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCValiet Organic CompoundsCAS-No.Notherwise SpecifiedNoS.Notherwise SpecifiedVPBNotherwise Specified  | DNEL                        | Derived-No Effect Level  |  |
| ENEuropean StandardIARCInternational Agency for Research on CancerIARAInternational Agency for Research on CancerIATAInternational Air Transport AssociationIMDGInternational Maritime Dangerous GoodsLSDMedian Iethal concentrationLDSUMedian Iethal doseLOAELLowest Observed Adverse Effect LevelNAECNo-Observed Adverse Effect ConcentrationNAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOEDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPNECPredicted No-Effect ConcentrationNDERegulations concerning the International Carriage of Dangerous Goods by RailSISSafety Data SheetThODInternational Chronig Co-Operation and DavelopmentsTDDSafety Data SheetSISSafety Data SheetSISSafety Data SheetTORNordienvier Effect ConcentrationTDDInternational Carriage of Dangerous Goods by RailSISSafety Data SheetSISSafety Data SheetTIMMedian Tolerance LimitNOCValite Organic CompoundsCAS-No.Chemical Abstract Service numberNO.S.No Chhemise SpecifiedVPBVery Persistent and Very Bioaccumulative  | EC-No.                      | European Community number  |  |
| IARCInternational Agency for Research on CancerIARAInternational Air Transport AssociationIMDGInternational Maritime Dangerous GoodsLC50Median Iethal concentrationLD50Median Iethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOAELOccupation for Economic Co-operation and DevelopmentOECDOrganisation for Economic Co-operation and DevelopmentPBTPresistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRDRRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSevage treatment plantThODToleraical LimitVOCValile Organic CompoundsCAS-No.Evenical Astract Service numberNO.S.No Chareyse Service numberNO.S.Very Persistent and Very BioaccumulativeVPBVery Persistent and Very Bioaccumulative   | EC50                        | Median effective concentration   |  |
| IATAInternational Air Transport AssociationIMDGInternational Maritime Dangerous GoodsLC50Median Iethal concentrationLD50Median Iethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOAELNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPBTPresistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTolerance LimitVOCVolatie Organic CompoundsCAS-No.Cernical Abstract Service numberNO.S.No Chhervise SpecifiedVPBVery Persistent and Very Bioaccumulative   | EN                          | European Standard  |  |
| INDGInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOECOrganisation for Economic Co-operation and DevelopmentOELDOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationSDSSafety Data SheetSTPSevage treatment plantThODSevage treatment plantThODNoclain Corpondic Co-operation and DevelopmentSDSSafety Data SheetSDSSafety Data SheetSTPSevage treatment plantThODNoclain Corpondic Scotta SheatThMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.S.No Otherwise SpecifiedVPBVery Persistent and Very Bioaccumulative   | IARC                        | International Agency for Research on Cancer                                  |  |
| LC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOAELNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberNO.S.Mot Otherwise SpecifiedVPBVery Persistent and Very Bioaccumulative   | ΙΑΤΑ                        | International Air Transport Association                                      |  |
| LD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPNECPresistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODIncertical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVoltiel Organic CompoundsCAS-No.Chemical Abstract Service numberNO.S.No therwise SpecifiedVPBWery Persistent and Very Bioaccumulative  | IMDG                        | International Maritime Dangerous Goods                                       |  |
| LOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVoltile/Organic CompoundsCAS-No.Not Otherwise SpecifiedNO.S.No Cotherwise SpecifiedVPBVery Persistent and Very Bioaccumulative   | LC50                        | Median lethal concentration  |  |
| NOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentOECDOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPerdicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstrat Service numberNO.S.No Chterwise SpecifiedvPuBVery Persistent and Very Bioaccumulative  | LD50                        | Median lethal dose   |  |
| NOAELNo-Observed Adverse Effect LevelNOECNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCValile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Mo Otherwise SpecifiedvPBVery Persisent and Very Bioaccumulative  | LOAEL                       | Lowest Observed Adverse Effect Level   |  |
| NOECNo-Observed Effect ConcentrationNOECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPBTOresistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSwage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberNO.S.Mot Otherwise SpecifiedVPBVery Persistent and Very Bioaccumulative  | NOAEC                       | No-Observed Adverse Effect Concentration                                     |  |
| OECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitOELPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedvPBVery Persistent and Very Bioaccumulative  | NOAEL                       | No-Observed Adverse Effect Level   |  |
| OELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODToercical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.No Otherwise SpecifiedN.O.S.Not Otherwise SpecifiedVPBWey Persistent and Very Bioaccumulative  | NOEC                        | No-Observed Effect Concentration   |  |
| PBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedVPBVery Persistent and Very Bioaccumulative   | OECD                        | Organisation for Economic Co-operation and Development                       |  |
| PNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.No Otherwise SpecifiedvPvBVery Persistent and Very Bioaccumulative  | OEL                         | Occupational Exposure Limit  |  |
| RIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.No Otherwise SpecifiedVPBVery Persistent and Very Bioaccumulative  | РВТ                         | Persistent Bioaccumulative Toxic   |  |
| SDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedvPvBVery Persistent and Very Bioaccumulative   | PNEC                        | Predicted No-Effect Concentration  |  |
| STPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedvPvBVery Persistent and Very Bioaccumulative   | RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |  |
| ThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedvPvBVery Persistent and Very Bioaccumulative  | SDS                         | Safety Data Sheet  |  |
| TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedvPvBVery Persistent and Very Bioaccumulative  | STP                         | Sewage treatment plant   |  |
| VOC       Volatile Organic Compounds         CAS-No.       Chemical Abstract Service number         N.O.S.       Not Otherwise Specified         vPvB       Very Persistent and Very Bioaccumulative  | ThOD                        | Theoretical oxygen demand (ThOD)   |  |
| CAS-No.     Chemical Abstract Service number       N.O.S.     Not Otherwise Specified       vPvB     Very Persistent and Very Bioaccumulative   | TLM                         | Median Tolerance Limit   |  |
| N.O.S.     Not Otherwise Specified       vPvB     Very Persistent and Very Bioaccumulative  | VOC                         | Volatile Organic Compounds   |  |
| vPvB Very Persistent and Very Bioaccumulative   | CAS-No.                     | Chemical Abstract Service number   |  |
|   | N.O.S.                      | Not Otherwise Specified  |  |
| ED Endocrine disrupting properties  | vPvB                        | Very Persistent and Very Bioaccumulative                                     |  |
|   | ED                          | Endocrine disrupting properties  |  |

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.