

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Reference number: 00720 Issue date: 03-05-2022 Revision date: 03-05-2022 Supersedes version of: 18-04-2016 Version: 1.0

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

| 1.1. Product identifier | |
|---|--|
| Product form Trade name EC-No. CAS-No. Product code Formula Chemical structure | : Substance : ADONITOL FOR BIOCHEMISTRY : 207-685-7 : 488-81-3 : 00720 : C5H12O5 : OH HO - OH - |
| Synonyms | : Adonite, D-Ribitol, Pentitol, 1,2,3,4,5-Pentanol |
| 1.2. Relevant identified uses of the substa | nce or mixture and uses advised against |
| 1.2.1. Relevant identified uses | |
| 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 da | ta sheet |
| LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com | |
| 1.4. Emergency telephone number | |
| Emergency number | : + 91 22 6663 6663 (9:00am - 6:00 pm) |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

2.3. Other hazards

No additional information available

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| SECTION 3: Composition/information on ingredients | | |
|---|--------------------|--|
| 3.1. Substances | | |
| Substance type | : Mono-constituent | |
| Name | : ADONITOL | |
| CAS-No. | : 488-81-3 | |
| EC-No. | : 207-685-7 | |
| 3.2. Mixtures | | |
| Natappliable | | |
| Not applicable | | |

SECTION 4: First aid measures

4.1. Description of first aid measures

| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
|---------------------------------------|--|
| First-aid measures after skin contact | : Wash with plenty of water/ Wash skin with plenty of water. |
| First-aid measures after eye contact | : Rinse immediately with plenty of water. Rinse eyes with water as a precaution. |
| First-aid measures after ingestion | : Rinse mouth. Call a poison center or a doctor if you feel unwell. |
| | |

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

No additional information available

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 Unsuitable extinguishing media | Carbon dioxide. Dry powder. Foam. Water spray.Do not use extinguishing media containing water. | |
| 5.2. Special hazards arising from the substance or mixture | | |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. | |
| 5.3. Advice for firefighters | | |
| 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 e | quipment and emergency procedures |
|---|--|
| 6.1.1. For non-emergency personnel | |
| 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. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Ventilate area. |
| 6.2. Environmental precautions | |
| Avoid release to the environment. | |

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| 6.3. Methods and material for containment and cleaning up | | |
|---|---|--|
| Methods for cleaning up | : 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. | |
| 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 stor | age | |
|---|---|--|
| 7.1. Precautions for safe handling | | |
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours. Avoid dust formation. | |
| 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 | | |
| Storage conditions | : Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. | |
| Storage temperature | : 2 – 8 °C | |

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



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8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Hand protection: Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state | : Solid |
|---|--------------------------------|
| Appearance | : Crystalline powder. |
| Molecular mass | : 152.15 g/mol |
| Colour | : White to off white. |
| Odour | : No data available |
| Odour threshold | : No data available |
| рН | : 5.5 – 7 (100 g/L, H2O, 25°C) |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : 100 – 105 °C |
| Freezing point | : Not applicable |
| Boiling point | : No data available |
| Flash point | : Not applicable |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Non flammable. |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : Water: Soluble in water |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic | : Not applicable |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : Not applicable |

9.2. Other information

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.

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| 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 toxicological | effects |
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |
| Skin corrosion/irritation | : Not classified |
| | pH: 5.5 – 7 (100 g/L, H2O, 25°C) |
| Serious eye damage/irritation | : Not classified |
| | pH: 5.5 – 7 (100 g/L, H2O, 25°C) |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| ADONITOL FOR BIOCHEMISTRY (488-81-3) | |
| Viscosity, kinematic | Not applicable |

SECTION 12: Ecological information

| 12.1. Toxicity | |
|--|---|
| Ecology - general Hazardous to the aquatic environment, short-term (acute) Hazardous to the aquatic environment, long-term (chronic) | The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Not classified Not classified |
| 12.2. Persistence and degradability | |
| No additional information available | |
| 12.3. Bioaccumulative potential | |
| No additional information available | |
| 12.4. Mobility in soil | |
| No additional information available | |
| 12.5. Results of PBT and vPvB assessmen | t |
| No additional information available | |

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12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

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

SECTION 14: Transport information In accordance with ADR / IMDG / IATA / ADN / RID 14.1. UN number UN-No. (ADR) : Not regulated UN-No. (IMDG) : Not regulated UN-No. (IATA) Not regulated UN-No. (ADN) : Not regulated UN-No. (RID) : Not regulated 14.2. UN proper shipping name Proper Shipping Name (ADR) : Not regulated Proper Shipping Name (IMDG) Not regulated Proper Shipping Name (IATA) : Not regulated : Not regulated Proper Shipping Name (ADN) Proper Shipping Name (RID) : Not regulated 14.3. Transport hazard class(es) ADR Transport hazard class(es) (ADR) : Not regulated IMDG Transport hazard class(es) (IMDG) : Not regulated ΙΑΤΑ Transport hazard class(es) (IATA) : Not regulated ADN Transport hazard class(es) (ADN) : Not regulated RID Transport hazard class(es) (RID) : Not regulated 14.4. Packing group Packing group (ADR) : Not regulated Packing group (IMDG) : Not regulated Packing group (IATA) : Not regulated Packing group (ADN) : Not regulated Packing group (RID) : Not regulated 14.5. Environmental hazards Dangerous for the environment : No Marine pollutant : No Other information : No supplementary information available

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14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea Not regulated

Air transport Not regulated

Inland waterway transport Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

ADONITOL FOR BIOCHEMISTRY is not on the REACH Candidate List

ADONITOL FOR BIOCHEMISTRY is not on the REACH Annex XIV List

ADONITOL FOR BIOCHEMISTRY is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

ADONITOL FOR BIOCHEMISTRY is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

| Water hazard class (WGK) | : Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV) |
|--|--|
| Hazardous Incident Ordinance (12. BImSchV) | : Is not subject of 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 |
| NIET-limitatieve lijst van voor de voortplanting | : The substance is not listed |
| giftige stoffen – Borstvoeding | |
| NIET-limitatieve lijst van voor de voortplanting | : The substance is not listed |
| giftige stoffen – Vruchtbaarheid | |
| NIET-limitatieve lijst van voor de voortplanting | : The substance is not listed |
| giftige stoffen – Ontwikkeling | |

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 |

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| Abbreviations and acronyms | |
|----------------------------|--|
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| ΙΑΤΑ | 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 |
| РВТ | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

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.