

L (+) RHAMNOSE FOR BIOCHEMISTRY MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product form : Substance
CAS-No. : 10030-85-0
Product code : 39347

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 Reagent

1.2.2. Uses advised against

No additional information available

1.3. Details of the manufacturer of the safety data sheet

Techno Pharmchem
Plot No.1022, Modern Industrial Estate,
Bahadurgarh-124507, India
info@technopharmchem.com

1.4. Emergency telephone number

Emergency number: +91 11 23646422 (9:30am – 5.30pm)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

Not classified

Classification according to directive 67/548/EEC or 1999/45/EC

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

| | | |
|---------|---|---------------------------|
| Name | : | L (+) RHAMNOSE MONHYDRATE |
| CAS-No. | : | 10030-85-0 |

3.2. Mixtures

Not applicable

Full text of H- and EUH-statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

| | | |
|---------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general | : | If you feel unwell, seek medical advice. |
| First-aid measures after inhalation | : | Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice. |
| First-aid measures after skin contact | : | Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water. |
| First-aid measures after eye contact | : | Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : | Rinse mouth out with water. If you feel unwell, seek medical advice. Call a poison centre 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 | : | None under normal conditions. Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure. |
| Symptoms/effects after skin contact | : | None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing. |
| Symptoms/effects after eye contact | : | None under normal conditions. Dust from this product may cause eye irritation. |
| Symptoms/effects after ingestion | : | None under normal conditions. |

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

Treat symptomatically

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

| | | |
|--------------------------------|---|----------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media | : | dry chemical powder, alcohol-resistant foam, carbon dioxide (CO ₂). Water spray. Dry powder. Foam. |
| Unsuitable extinguishing media | : | Do not use a heavy water steam. |



TECHNO PHARMCHEM

An ISO 9001 : 2008 Certified Company

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Telephone : 0091 - 11 - 23646422 E-mail : tecpharm@gmail.com
Website : www.technopharmchem.com

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 | : | 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. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : | Stop release. Ventilate area. Evacuate unnecessary personnel. |

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

| | | |
|-------------------------|---|---------------------------------------------------------------------------------------------|
| For containment | : | Using a clean shovel, put the material in a dry container and cover without compressing it. |
| Methods for cleaning up | : | Mechanically recover the product. Clear up rapidly by scoop or vacuum. |
| Other information | : | Dispose of materials or solid residues at an authorized site |

6.4. Reference to other sections

No additional information available

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 | : | Ensure good ventilation of the work station. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. |
| 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 compatibilities

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

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

| | | |
|--------------------------|---|------------------------------------|
| Hand protection | : | Protective gloves |
| Eye protection | : | Chemical goggles or safety glasses |
| Skin and body protection | : | Wear suitable protective clothing |
| Respiratory protection | : | Wear respiratory protection |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | | |
|-----------------|---|---------------------|
| Physical state | : | Solid |
| Colour | : | White to off white. |
| Appearance | : | Crystalline powder. |
| Molecular mass | : | 182.17 g/mol |
| Odour | : | Odourless. |
| Odour threshold | : | Not available |
| Melting point | : | 89 – 92 °C |
| Freezing point | : | Not applicable |
| Boiling point | : | Not applicable |
| Flammability | : | Non-flammable. |



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| | | |
|----------------------------------------------------|---|---------------------------------|
| Lower explosion limit | : | Not applicable |
| Upper explosion limit | : | Not applicable |
| Flash point | : | Not applicable |
| Auto-ignition temperature | : | Not applicable |
| Decomposition temperature | : | Not available |
| pH | : | 7.8 – 8.6 |
| pH solution concentration | : | 10 % |
| Viscosity, kinematic | : | Not applicable |
| Solubility | : | Water: 300 g/l at 20 °C |
| Partition coefficient n-octanol/water (Log Kow) | : | Not available |
| Vapour pressure | : | Not available |
| Vapour pressure at 50°C | : | Not available |
| Density | : | 1.47 g/cm ³ at 20 °C |
| Relative density | : | Not available |
| Relative vapour density at 20°C | : | Not applicable |
| Particle size | : | Not available |

9.2. Other Information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical Stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

| | | |
|-----------------------------|---|----------------|
| Acute toxicity (oral) | : | Not classified |
| Acute toxicity (dermal) | : | Not classified |
| Acute toxicity (inhalation) | : | Not classified |



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| | | |
|-----------------------------------|---|-----------------|
| Skin corrosion/irritation | : | Not classified |
| | | pH: 7.8 – 8.6 |
| Serious eye damage/irritation | : | Not classified. |
| | | pH: 7.8 – 8.6 |
| Respiratory or skin sensitization | : | 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 |
| Viscosity, kinematic | : | Not applicable |

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bio accumulative 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. Other adverse effects

No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product/package disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: TRANSPORT INFORMATION

14.1. UN Number

ADR/RID: -

IMDG: -

IATA: -

14.2. UN proper shipping name

ADR/RID : Not dangerous goods

IMDG : Not dangerous goods

IATA : Not dangerous goods



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14.3. Transport hazard class (es)

ADR/RID: - IMDG: - IATA: -

14.4. Packaging group

ADR/RID: - IMDG: - IATA: -

14.5. Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6. Special precautions for user

No data available

SECTION 15: REGULATORY INFORMATION

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

Ensure all local, regional, national and/or international regulations are observed.

15.2 Chemical safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: OTHER INFORMATION

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.