

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Identification of the product : D (+) MANNOSE 99%

CAS No: 3458-28-4

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

Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Manufacturer/supplier identification

Company : NICE Chemicals (P) Ltd., Cochin, India

Tel - 0484 2800212, 2802755

Contact for information : Tel. No.- 0484 2802536 Fax : 0484 2802483 Emergency Telephone No. : 0484 2801583 Tele fax No. : 0484 2802483

2. HAZARDS IDENTIFICATION -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Not classified.

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Not classified.

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

Not classified.

Labelling Regulation EC 1272/2008 (CLP)

2. Hazards identification -DSD (continued)

Not classified.

2.3. Other hazards

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or

vPvB

substance according to Annex XIII of Regulation REACH.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Preparation : D-

MANNOSE99% CAS No :3458-

28-4 Substance.



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Contains no other components or impurities which will influence the classification of the product.

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation : Assure fresh air breathing. Allow the victim to rest.

Skin contact : Remove affected clothing and wash all exposed skin area with mild

soap and water, followed by warm water rinse.

Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain,

blinking or redness persist.

Ingestion : Obtain emergency medical attention. Rinse mouth. Do NOT induce

vomiting.

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

Symptoms relating to use : Not expected to present a significant hazard under anticipated conditions

of normal use.

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

General information : Never give anything by mouth to an unconscious person. If you feel

unwell, seek medical advice (show the label where possible).

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Surrounding fires : Use water spray or fog for cooling exposed containers.

5. Fire-fighting measures (continued)

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including

respiratory protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-

fighting water to enter environment.



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6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

: Equip cleanup crew with proper protection. For emergency responders

> Ventilate area.

: Evacuate unnecessary personnel. For non-emergency personnel

6.2. Environmental precautions

: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Environmental precautions

6.3. Methods and material for containment and cleaning up

: On land, sweep or shovel into suitable containers. Minimize generation of Clean up methods

dust

Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eat, Handling

drink or smoke and when leaving work.

: Provide good ventilation in process area to prevent formation of vapour. Technical protective measures

7.2. Conditions for safe storage, including any incompatibilities

7. Handling and storage (continued)

: Keep only in the original container in a cool, well ventilated place. Keep Storage

container closed when not in use.

: Strong bases. Strong acids. Sources of ignition. Direct sunlight. Storage - away from

7.3. Specific end use(s)

Specific end use(s) : None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure controls

Personal protection : Avoid all unnecessary exposure.



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Respiratory protection
 Hand protection
 Wear approved mask.
 Wear protective gloves.

Eye protection
Chemical goggles or safety glasses.
Others
When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Solid.

Colour : White powder
Odour : Odorless
Odour threshold : No data

available.

pH value : Not applicable.

Melting point [°C] : 132°C Decomposition point [°C] : N/A

Critical temperature [°C] :

N/A Auto-ignition temperature [°C] :

N/A Flammability (solid, gas) :

N/A Flash point [°C] :

N/A Boiling point [°C] :

N/A Initial boiling point [°C] :

N/A Final boiling point [°C] :

N/A

9. Physical and chemical properties (continued)

Evaporation rate : N/A
Vapour pressure [20°C] : N/A
Vapour pressure mm/Hg : N/A
Vapour density : N/A

Density [g/cm3]

1,539

Relative density, gas (air=1) : N/A Relative density, liquid (water=1) : N/A

Solubility in water [% weight] : Soluble in water



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Solubility in water : N/A

Log Pow octanol / water at 20°C : No data available.

Solubility : N/A Viscosity at 40°C [mm2/s] : N/A

9.2. Other information

Explosive properties : N/A Explosion limits - upper [%] : N/A Explosion limits - lower [%] :

N/A

Oxidising properties : No data available.

10. STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity : Not established.

10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Not established.

10.4. Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

10. Stability and reactivity (continued)

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.



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11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Inhalation
 Based on available data, the classification criteria are not met.
 Dermal
 Based on available data, the classification criteria are not met.

: Based on available data, the classification criteria are • Ingestion : Based on available data, the classification criteria are not met. Corrosion : Based on available data, the classification criteria are not met. Irritation : Based on available data, the classification criteria are not met. Sensitization : Based on available data, the classification criteria are not met. Mutagenicity : Based on available data, the classification criteria are not met. Carcinogenicity : Based on available data, the classification criteria are not met. Toxic for reproduction : Based on available data, the classification criteria are not met. STOT-single exposure : Based on available data, the classification criteria are not met. STOT-repeated exposure : Based on available data, the classification criteria are not met. Aspiration hazard

not met.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Toxicity information : Not established.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance

or vPvB

substance according to Annex XIII of Regulation REACH.



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12. Ecological information (continued)

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in

accordance with local/national regulations.

14. TRANSPORT INFORMATION

14.1. Land transport (ADR-RID)

General information : Not regulated.

14.2. Sea transport (IMDG) [English only]

General information : Not regulated.

14.3. Air transport (ICAO-IATA) [English only]

General information : Not regulated.

15. REGULATORY INFORMATION

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

Safety, health and environmental regulations/legislation specific for

the substance or mixture

: Ensure all national/local regulations are observed.

REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions. REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

16. OTHER INFORMATION

Abbreviations and acronyms : PBT: persistent, bioaccumulative and

toxic. vPvB: very persistent and very

bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN

PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures,

amending and repealing Directives 67/548/EEC and

1999/45/EC, and amending Regulation (EC) No 1907/2006



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Further information : None.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.