OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

D (+) MANNOSE 99% AR

MSDS CAS: 3458-28-4

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 4/11/2023 Revision date: 4/11/2023

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: D (+) MANNOSE AR
CAS#: 3458-28-4
Synonym: D-Mannopyranose, (3S,4S,5S,6R)-6-(hydroxymethyl)oxane-2,3,4,5-tetrol
Chemical Name: Not available.
Chemical Formula: $C_6H_{12}O_6$

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: **OXFORD LAB FINE CHEM LLP**
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
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Mumbai, Maharashtra, INDIA.
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS NO	% by Weight
D (+) MANNOSE AR	3458-28-4	≤100%

Section 3: Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1999/45 : Not Classified.

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

Not Classified.

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.

Section 4: First Aid Measures

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. Do NOT induce vomiting. Rinse mouth.

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.

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).

Section 5: Fire and Explosion Data

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.**

Special hazards arising from the substance or mixture

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

Section 5: Fire and Explosion Data (Continued)

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.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For emergency responders : Equip cleanup crew with proper protection. Ventilate area.

For non-emergency personnel : Evacuate unnecessary personnel.

Environmental precautions:

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

Methods and materials for contain ent and cleaning up

Clean up methods: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

Section 7: Handling and Storage

Precautions for safe handling

Handling: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

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

Conditions for safe storage, including any incompatibilities

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

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

Specific end uses

Specific end use(s): None.

Section 8: Exposure Controls/Personal Protection

Personal protection : **Avoid all unnecessary exposure.**
- **Respiratory protection** : **Wear approved mask.**
- **Hand protection** : **Wear protective gloves.**
- **Eye protection** : **Chemical goggles or safety glasses.**
- **Others** : **When using, do not eat, drink or smoke.**

Control parameters

Occupational Exposure Limits : **No data available.**

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state	**: Solid**
Colour	**: White Powder**
Odour	**: Odorless**
Molecular mass	**: 180.16 g/mol**
pH value	**: Not applicable.**
Melting point [°C]	**: 132°C**
Decomposition point [°C]	**: No data available.**
Critical temperature [°C]	**: No data available.**
Auto-ignition temperature [°C]	**: No data available.**
Flammability (solid, gas)	**: No data available.**
Flash point [°C]	**: No data available.**
Boiling point [°C]	**: No data available.**
Initial boiling point [°C]	**: No data available.**
Final boiling point [°C]	**: No data available.**
Evaporation rate	**: No data available.**
Vapour pressure [20°C]	**: No data available.**
Vapour pressure mm/Hg	**: No data available.**
Vapour density	**: No data available.**
Density [g/cm3]	**: 1.554 g/cm^3**
Relative density, gas (air=1)	**: No data available.**
Relative density, liquid (water=1)	**: No data available.**
Solubility in water [% weight]	**: Soluble in water.**
Solubility in water	**: No data available.**

Section 9: Physical and Chemical Properties(Continued)

Log Pow octanol / water at 20°C : **No data available.**
Solubility : **No data available.**
Viscosity at 40°C [mm2/s] : **No data available.**

Other information
Explosive properties : **No data available.**
Explosion limits - upper [%] : **No data available.**
Explosion limits - lower [%] : **No data available.**
Oxidising properties : **No data available.**

Section 10: Stability and Reactivity Data

Reactivity: **Not established.**

Chemical stability: **Stable under recommended storage conditions.**

Possibility of hazardous reactions
Hazardous reactions: **Not established.**

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

Incompatible materials
Materials to avoid: **Strong acids. Strong bases.**

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

Section 11: Toxicological Information

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.**
- **Ingestion** : **Based on available data, the classification criteria are not met.**

Corrosion : **Based on available data, the classification criteria are not met.**

Section 11: Toxicological Information (Continued)

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	**: Based on available data, the classification criteria are not met.**

Section 12: Ecological Information

Toxicity information: **Not established.**

Persistence - degradability: **Biodegradable.**

Bioaccumulative potential: **Not established.**

Mobility in soil: **Not established.**

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.**

Other adverse effects

Environmental precautions: **Avoid release to the environment.**

Section 13: Disposal Considerations

Waste treatment methods

General: **Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.**

Section 14: Transport Information

Land transport (ADR-RID)

General information : **Not regulated.**

Sea transport (IMDG) [English only]

General information : **Not regulated.**

Air transport (ICAO-IATA) [English only]

General information : **Not regulated.**

Section 15: Other Regulatory Information

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.

Chemical Safety Assessment
Chemical Safety Assessment: It has not been carried out.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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