



Material Safety Data Sheet

Format no: RDM/MSDS/S-04

Revision: 01 / 2024

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

1.1 Product Identifiers

Product Name

D-Mannitol

Product code

(RDM-S-04)

Cas No.

69-65-8

Brand

ReadyMED®

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

Identified Uses

Recommended for the growth supplement in bacteriological media, fermentation process as a Carbon source. Used for the analytical / microbial laboratory use /fermentation purpose only.

1.3 Details of the supplier of the safety data sheet

Company

CHAITANYA AGRO BIOTECH PVT. LTD.

CIN NO.: U24210MH1995PTC095220S,

S. No. 120/2, Laxmi Nagar, Umbarnala Road, Malkapur-443101,

Dist.: Buldana (M.S.) India. Customer Care +91-8669083859

rdmsales@chaitanyagroupindia.com,

mkt.cabt@chaitanyagroupindia.com, www.chaitanyagroupindia.com

1.4 Emergency telephone number

Emergency Phone#

Local Emergency Service numbers where product is being used

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Non hazardous substances

2.2 Label elements

Non hazardous substances

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.1 Mixtures

None of the component needs to be disclosed as per the applicable regulatory norms

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult physician with this safety data sheet

If inhaled

Move the person to fresh air; if person is unable to breath give artificial respiration and consult physician

In case of skin contact

Wash with soap and plenty of water in order to remove all contents from skin

If swallowed

Rinse mouth with water and consult physician.

4.2 Acute and delayed important symptoms and effects

No data available

4.3 Indication of any specific or immediate medical treatment needed

No data Available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.2 Special hazards arising from the substance or

Nature of decomposition products not known. (on burning

mixture	may generate Carbon oxides, Hydrogen chloride gas, Sodium oxides)
5.3 Advice for fire fighters	Wear self-contained breathing apparatus for firefighting if necessary.
5.4 Further information	No data available
SECTION 6: Accidental release measures	
6.1 Personal protective equipment and emergency procedures	Use personal protective equipment as per the local authority or the firm. Avoid dust formation and breathing dust. Avoid breathing vapours, mist or gas. Ensure adequate ventilation in area of work. For personal protection see section 8.
6.2 Environmental precautions	Do not let product enter drains.
6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust.	Sweep up and shovel. Keep in suitable, closed containers for disposal.
6.4 Reference to other sections	For disposal see section 13.
SECTION 7: Handling and storage	
7.1 Precautions for safe handling Provide appropriate exhaust ventilation at places where dust is formed.	Normal measures for preventive fire protection. For precautions see section 2.2. & 6.1
7.2 Conditions for safe storage, including any incompatibilities	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Hygroscopic, Moisture sensitive.
7.3 Specific end use(s) Apart from the uses mentioned in section 1.2	No other specific uses are stipulated
SECTION 8: Exposure controls/personal protection	
8.1 Control parameters	Components with workplace control parameters and regulations
8.2 Exposure controls Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment Eye/face protection	Triple layered Surgical Face mask and Safety glasses with side-shields.
Skin protection	Use of proper gowning/ aprons, Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product in accordance with good laboratory practices.
Body Protection	Choose body protection in relation to its type, to the concentration and number of dangerous substances, and to the specific work-place
Respiratory protection	Respiratory protection is not required. Where protection from nuisance levels of dusts is desired, use triple layered surgical type or type P1
Control of environmental exposure	Do not let product enter drains.
SECTION 9: Physical and chemical properties	
9.1 Information on basic physical and chemical properties a) Appearance	Form: powder Colour: White

b) pH	----
c) Melting point/freezing point	No data available
d) Initial boiling point and boiling range	No data available
e) Flash point	No data available
f) Evaporation rate	No data available
g) Flammability (solid, gas)	No data available
h) Upper/lower flammability or explosive limits	No data available
i) Vapour pressure	No data available
j) Vapour density	No data available
k) Relative density	No data available
l) Water solubility	No data available
m) Partition coefficient: n-octanol/water	No data available
n) Auto-ignition temperature	No data available
o) Decomposition temperature	No data available
p) Viscosity	No data available
q) Explosive properties	No data available
r) Oxidizing properties	No data available
9.2 Other safety information	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	Strong oxidizing agents
10.6 Hazardous decomposition products Hazardous decomposition products formed under fire conditions.	Nature of decomposition products not known. Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas, Sodium oxides Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity	Oral LD 50 (Albino Rat) > 3100 mg/kg
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity IARC:	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information RTECS	Not available
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	

SECTION 12: Ecological information

12.1 Toxicity	No data available
12.2 Persistence and degradability	No data available
12.3 Bio-accumulative potential	No data available
12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6 Other adverse effects	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

OR

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

Type of Material

Not dangerous goods

UN proper shipping number

There is no UN number allocated to non-hazardous substances.

ADN: ADR: I ATA: IMDG: RID:

ADN: Not regulated

ADR: Not regulated

IATA: Not regulated

IMDG: Not regulated

RID: Not regulated

Transport hazard class(es)

ADN: ADR: IATA: IMDG: RID:

Packaging group

ADN: ADR: IATA: IMDG: RID:

Environmental hazards

AND: no ADR: no IATA: no IMDG: no RID: no

D O T Classification

Not a DOT controlled material

Air Transport Goods

Marine Transport Goods

Land Transport Goods

IATA Specification

Non-Hazardous / Non-Dangerous Classification

Special Provisions for Transport:

Not applicable

SECTION 15: Regulatory information

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

International Chemical Weapons Convention (CWC)
Schedules of Toxic Chemicals and Precursors

Neither Banned nor Restricted

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

Neither Banned nor Restricted

Listed substance / Sunset Date

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other Information

Abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CAS no.: Chemical Abstracts Service Number

CLP: Classification, Labelling and Packaging

ECHA: European Chemical Agency

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods

LD50: Median lethal dose

OECD: Organization for Economic Cooperation and Development
PBT: Persistent Bioaccumulative Toxic
REACH: Registration, Evaluation, Authorisation and restriction of Chemicals.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
RTECS: Registry Of Toxic Effects of Chemical Substances
vPvB: Very Persistent and Very Bioaccumulative

Disclaimer:

The information contained in the technical data sheet is to the best of our knowledge is accurate and true based on the research and development work carried out by **ReadyMED®**, Chaitanya Agro Biotech, Malkapur, Maharashtra. The products are neither intended for any therapeutic use for animal or human nor for any other *in-vivo* applications. The **ReadyMED®** products are only meant to be used for the laboratory, diagnostic, research, or further manufacturing purpose only. These technical outcomes should not be considered as the warranty of any kind expressed or implied, and no liability is accepted for infringement of any patent



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