



Material Safety Data Sheet

Format no: RDM/MSDS/H-MCA-01

Revision: 01 / 2024

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

1.1 Product Identifiers

Product Name

MacConkey Agar (Harmonized)

Product Code

RDM-H-MCA-01

Brand

ReadyMED®

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

Identified Uses

Microbial Analysis and Research, clinical and non-clinical specimens & Industrial analysis

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

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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

Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008.

2.2 Label elements

Not required, not a hazardous substance

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Used concentration non hazardous

Chemical name	CAS No.	EC No.	Concentration
Crystal violet	548-62-9	208-953-6	$\geq 0.0001 - \leq 0.001\%$
Neutral Red	553-24-2	209-035-8	$\geq 0.003 - \leq 0.030\%$

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

Eye contact

Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist

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

Most important symptoms and effects, both acute and delayed

Inhalation

May cause irritation to respiratory system

Eye contact

May cause irritation to eyes

Skin contact

May cause irritation to skin

Ingestion

Ingestion may cause nausea and vomiting

4.3 Indication of any specific or immediate medical treatment needed

Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist.

If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

- | | |
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| 5.1 Extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide/ Use extinguishing media appropriate to the surrounding fire conditions. |
| 5.2 Special hazards arising from the substance or mixture | Combustible dusts: May form combustible dust concentrations in air. Avoid formation of dust. Do not allow undiluted product to be released to ground water, water course or sewage system. |
| 5.3 Advice for fire fighters | Wear self-contained breathing apparatus for firefighting if necessary. Do not breathe dust or vapor. Wear suitable respiratory equipment when necessary. |
| 5.4 Further information | No data available |

SECTION 6: Accidental release measures

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| 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

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| 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

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|-----------------------------------|--|
| 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 | Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses. |
| Skin protection | Use of proper gowning/ aprons, Handle with gloves. Gloves (CE-approved 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 | Protective clothing |
| Respiratory protection | Use respiratory protection system (DIN EN 143, DIN 14387). Recommended Filter type: Filter type P1 |
| Control of environmental exposure | Do not let product enter drains. |
| Other information | Stomach pains, vomiting, diarrhea. Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals |

SECTION 9: Physical and chemical properties

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|---|---|
| 9.1 Information on basic physical and chemical properties | |
| a) Appearance | Form: Powder Colour: Pinkish beige coloured |

b) pH	7.1±0.2 at 25°C
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	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
Hazardous decomposition products formed under fire conditions.	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) > 2400 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 mutagenic effects reported.
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 teratogenic effects reported.
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No Significant Hazard
Aspiration hazard	No Significant Hazard
Additional Information RTECS	Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible

11.2 Components

Crystal Violet

Acute Oral Toxicity	LD50: Rat - 420 mg/kg
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Phenol Red

Acute Oral Toxicity	LD50: Rat - >600 mg/Kg
Intravenous	LD50: Rat - 752 mg/Kg

SECTION 12: Ecological information

12.1 Toxicity No data available

Components

Crystal Violet LC50: Salmo gairdneri - 0.7 mg/l; 96 h

Toxicity to fish EC50: Bacteria - 10-100 mg/l; 96 h

Toxicity to bacteria

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 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

UN proper shipping name 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 Non-Hazardous / Non-Dangerous Classification

Land Transport Goods

IATA Specification

Special Provisions for Transport: Not applicable

SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

EC50: Half maximal effective concentration

ECHA: European Chemical Agency

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods

LC50: Median lethal concentration

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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