



Material Safety Data Sheet

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

1.1 Product Identifiers

Product Name

Oxidase Reagent

Product code

(RDM-OR-01)

Brand

ReadyMED®

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

Identified Uses

Biochemical research/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,

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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

3.4 R (Respiratory Sensitisation)

As per Globally Harmonized System of Classification and Labelling of Chemicals (GHS) the material is classified in following category Codes are H334

2.2 Label elements



Danger

No significantly Hazardous substances

2.3 Other hazards

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Ingredients	Concentration	Classification
N,N-Dimethyl p-phenylenediam Inehydrochloride CAS no.: 2052-46-2	1.5%	Resp. Sens. 1, H334

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

Suitable extinguishing media: Carbon dioxide (CO2) Dry powder

5.2 Special hazards arising from the substance or mixture	Foam Unsuitable extinguishing media: For this substance / mixture no limitations of extinguishing agents are given Combustible. Fire may cause evolution of: Hydrogen chloride gas, nitrogen oxides, Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air at elevated temperatures. Development of hazardous combustion gases or vapours possible in the event of fire.
5.3 Advice for fire fighters	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
5.4 Further information	Remove container from danger zone and cool with water. Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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

9.1.1	Appearance Form: liquid	9.1.12	Melting point/freezing point No data available
9.1.2	Colour: Bluish to black colored solution	9.1.13	Initial boiling point and boiling range No data available
9.1.3	pH < 1 at 20°C	9.1.14	Upper/lower flammability or explosive limits No data available
9.1.4	Flash point 36°C	9.1.15	Partition coefficient: n-octanol/water: No data available
9.1.5	Water solubility at 20 °C soluble	9.1.16	Flammability (solid, gas) No data available
9.1.6	Odour characteristic odour	9.1.17	Autoignition temperature: No data available
9.1.7	Odour Threshold No data available	9.1.18	Decomposition temperature: No data available
9.1.8	Evaporation rate No data available	9.1.19	Viscosity, kinematic: No data available
9.1.9	Viscosity, dynamic: No data available	9.1.20	Explosive properties No data available
9.1.10	Vapour pressure No data available	9.1.21	Oxidizing properties No data available
9.1.11	Vapour density No data available	9.1.22	Relative density No data available

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

has a corrosive effect

10.2 Chemical stability

Vapour /air-mixtures are explosive at intense warming.

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Risk of explosion with: Alkali metals, conc. sulfuric acid, Risk of ignition or formation of inflammable gases or vapours with: Carbides, lithium silicide, Fluorine, Strong oxidizing agents, chromium(VI) oxide, Generates dangerous gases or fumes In contact with: Aluminium hydrides, Formaldehyde, Metals, strong alkalis, Sulphides, Exothermic reaction with: Amines, potassium permanganate, salts of oxy halogen acids, semi metallic oxides, semi metallic hydrogen , compounds, Aldehydes, vinyl methyl ether, Alkaline earth metals, strong reducing agents, Acid chlorides

10.4 Conditions to avoid

Heating.

10.5 Incompatible materials

various metals, Rubber, various plastics Metals

10.6 Hazardous decomposition products 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

Non-Acute Toxic

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages: damage of respiratory tract

May cause skin sensitization.

Skin corrosion/irritation

No data available

Germ cell mutagenicity

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

This substance/mixture contains no components considered to be persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.

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	Dangerous goods
Special precautions for user	S16- Keep away from sources of ignition - No smoking. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37- Wear suitable protective clothing and gloves. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Risk	R11- Highly flammable, R36- Irritating to eyes, R43- May cause sensitization by skin contact, R66- Repeated exposure may cause skin dryness or

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 Flammable Liquids, For this product a chemical safety assessment was not carried out

SECTION 16: Other Information**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

**CHAITANYA AGRO BIOTECH PVT. LTD.**

An ISO 11133:2014, ISO 13485:2016, ISO 9001:2015 CE

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