



Material Safety Data Sheet

Format no: RDM/MSDS/K-GS-01

Revision: 01 / 2024

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

1.1 Product Identifiers

Product Name

**Gram Staining Kit
(RDM-K-GS-01)**

Product code

ReadyMED®

Brand

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

Identified Uses

To differentiate between Gram-positive and Gram-negative bacteria.

1.3 Details of the supplier of the safety data sheet

Company

CHAITANYA AGRO BIOTECH PVT. LTD.

CIN NO.: U24210MH1995PTC095220S,

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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

No significantly Hazardous substances and generally used in laboratories, pharma and chemical industries with GLP.

As per Globally Harmonized System of Classification and Labelling of Chemicals (GHS) the material is classified in following category Codes are H225, H319, H351, H336 & H411.



2.2 Label elements

2.3 Other hazards

No significantly Hazardous substances

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Ingredients	Preparation	Risk Phase (Globally Harmonized System of Classification)
Part A	Crystal violet staining solution	H225- Highly flammable H300- Harmful if swallowed H318- Risk of serious damage to eyes.
Part B	Iodine Solution	H310/320- Harmful by inhalation and in contact with skin.
Part C	Decolourizer solution	H319- Irritating to eyes. H316- Repeated exposure may cause skin dryness or cracking. H336- Vapours may cause drowsiness and dizziness. H225- Highly flammable
Part D	Safranin solution	H225- Highly flammable H318- Risk of serious damage to eyes.

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 breathe give artificial respiration and consult physician

In case of skin contact

Wash with soap and plenty of water in order to remove

If swallowed
4.2 Acute and delayed important symptoms and effects
4.3 Indication of any specific or immediate medical treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.2 Special hazards arising from the substance or mixture

5.3 Advice for fire fighters

5.4 Further information

SECTION 6: Accidental release measures

6.1 Personal protective equipment and emergency procedures

6.2 Environmental precautions
6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust.
6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling Provide appropriate exhaust ventilation at places where dust is formed.
7.2 Conditions for safe storage, including any incompatibilities

7.3 Specific end use(s) Apart from the uses mentioned in section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls
Appropriate engineering controls

Personal protective equipment
Eye/face protection

Skin protection

Body Protection

Respiratory protection

Control of environmental exposure

all contents from skin
Rinse mouth with water and consult physician.
No data available
No data Available

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Nature of decomposition products not known. (on burning may generate Carbon oxides, Hydrogen chloride gas, Sodium oxides)
Wear self-contained breathing apparatus for firefighting if necessary.
No data available

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.
Do not let product enter drains.
Sweep up and shovel. Keep in suitable, closed containers for disposal.
For disposal see section 13.

Normal measures for preventive fire protection. For precautions see section 2.2. & 6.1
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Hygroscopic, Moisture sensitive.
No other specific uses are stipulated

Components with workplace control parameters and regulations

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Triple layered Surgical Face mask and Safety glasses with side-shields.
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.

Choose body protection in relation to its type, to the concentration and number of dangerous substances, and to the specific work-place
Respiratory protection is not required. Where protection from nuisance levels of dusts is desired, use triple layered surgical type or type P1
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Liquid.

GRAM CRYSTAL VIOLET - Violet.

GRAM DECOLORIZER - Colourless.

GRAM IODINE - Yellowish-brown.

SAFRANIN - Red.

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) > 3600 mg/kg

Skin corrosion/irritation

May cause skin sensitization.

Serious eye damage/eye irritation

Hazardous in case of eye contact (irritant)

Respiratory or skin sensitisation

Hazardous

Germ cell mutagenicity

No data 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

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

Risk

medical advice immediately (show the label where possible).

H225- Highly flammable.

H319- Irritating to eyes.

H320- May cause sensitization by skin contact.

H310- 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)

Neither Banned nor Restricted

Schedules of Toxic Chemicals and Precursors

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

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

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