



Material Safety Data Sheet

Format no: RDM/MSDS/R-01

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

1.1 Product Identifiers

Product Name

Kovac's Indole Reagent

Product code

(RDM-R-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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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

Classification according to Regulation (EC) No 1272/2008 (CLP)

H226, H290, H302, H314, H318, H317, H335, H336

2.2 Label elements



2.3 Other hazards

No significantly Hazardous substances

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Ingredients	CAS no.	Concentration	Classification
iso amyl alcohol	123-51-3	>= 50 - < 70 %	Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; H226, H302, H315, H318, H336, H335 Concentration limits: >= 20 %: STOT SE 3, H335; >= 20 %: STOT SE3, H336;
Hydrochloric Acid	7647-01-0	>= 10 - < 20 %	Met. Corr. 1; Skin Corr. 1B; Eye Dam. 1; STOT SE 3; H290, H314, H318, H335, H336 Concentration limits: >= 0,1 %: Met. Corr. 1, H290; >= 25 %: Skin Corr. 1B, H314; 10 - < 25 %: Skin Irrit. 2, H315; 10 - < 25 %: Eye Irrit. 2, H319; >= 10 %: STOT SE 3, H335
4-dimethyl amino benz aldehyde	100-10-7	>= 1 - < 10 %	Skin Sens. 1B; H317

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

If swallowed	contents from skin 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 (CO ₂) Dry powder Foam Unsuitable extinguishing media: For this substance / mixture no limitations of extinguishing agents are given
5.2 Special hazards arising from the substance or mixture	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: yellow	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	Acute toxicity estimates Oral - 1.243 mg/kg 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
Skin corrosion/irritation	Causes severe skin burns and eye damage.
Respiratory or skin sensitisation	Shall not be classified as a respiratory or skin sensitiser.
Germ cell mutagenicity	Shall not be classified as germ cell mutagenic.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	

SECTION 12: Ecological information

12.1 Toxicity	Shall not be classified as hazardous to the aquatic environment.
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.
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. Do not empty into drains.
Contaminated packaging	Dispose of as unused product.

SECTION 14: Transport information

UN number or ID number	ADN: UN2920 ADR: UN2920 IATA: UN2920 IMDG: UN2920 RID: UN2920
UN proper shipping name	AND: CORROSIVE LIQUID, FLAMMABLE, N.O.S. ADR: CORROSIVE LIQUID, FLAMMABLE, N.O.S. IATA: CORROSIVE LIQUID, FLAMMABLE, N.O.S. IMDG: CORROSIVE LIQUID, FLAMMABLE, N.O.S. RID: CORROSIVE LIQUID, FLAMMABLE, N.O.S.
Transport hazard class(es)	ADN: 8 (3) ADR: 8 (3) IATA: 8 (3) IMDG: 8 (3) RID: 8 (3)
Packaging group	ADN: II ADR: II IATA: II IMDG: II RID: II
Environmental hazards	AND: No ADR: No IATA: No IMDG: No RID: No

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

Abbreviations:

ADN:	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS no.:	Chemical Abstracts Service Number
IATA:	International Air Transport Association
IMDG:	International Maritime Dangerous Goods
LC50:	Median lethal concentration
LD50:	Median lethal dose
PBT:	Persistent Bioaccumulative Toxic
REACH:	Registration, Evaluation, Authorisation and restriction of Chemicals.
RID:	Regulations concerning the International Carriage of Dangerous Goods by Rail
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

**CHAITANYA AGRO BIOTECH PVT. LTD.**

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

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