1 Identification of the substances/ mixture and of the company/ undertaking

1.1 Product Identifiers

Product Number	M583
Product Name	K.R.A.N.E.P. Agar Base
REACH Registration Number	This product is a mixture. Reach registration number is not available for this mixture.

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

1.2.1 Relevant identified uses Laboratory Chemicals, Analytical Purpose, Biochemical Analysis

1.3 Details of the supplier of the safety data sheet

Produced by	HiMedia Laboratories Private Limited		
Address	C - 40,Road No.21Y,MIDC, Wagle Industrial Area, Thane(W), - 400 604, India		
Tel. No.	+91-22- 6147 1919/6116 9797	Fax No.	: +91-22- 61471920
Mail Id	info@himedialabs.com	Website	: www.himedialabs.com

1.4 Emergency Tel. No.

Emergency Tel. No. Please contact the regional HiMedia representation in your country

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2 Hazards Identification

2.1 Classification of the substance or mixture

CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]

Acute toxicity, Oral, (Category 4), H302
Acute toxicity, Inhaled, (Category 4), H332
Hazardous to the aquatic environment, long term hazard, (Category 3), H412

2.2 Label elements

Labeling according to Regulation (EC) No.1272/2008

Pictogram
Signal word Warning

Hazard Statement(s)

H302	Harmful if swallowed
H332	Harmful if inhaled
H412	Harmful to aquatic life with long lasting effects

Precautionary Statement(s)

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P312	IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

P273 Avoid release to the environment.

2.3 Other Hazards

None

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3 Composition/Information On Ingredients

3.2 Mixture

Component		Classification	Concentration
Potassium thiocyanate			
CAS No. : EC No. :	333-20-0 206-370-1	**As Per EC Regulation 1272/2008** Acute Tox.oral 4; Acute Tox. dermal. 4; Acute Tox.inhal. 4; Aquatic Chronic 3 H302; H312; H332; H412	>=30.0 - <=40.0%

Component		Classification	Concentration
Lithium chloride			
CAS No. : EC No. :	7447-41-8 231-212-3	**As Per EC Regulation 1272/2008** Acute Tox.oral 4; Eye Irrit. 2A; STOT SE 3; Skin Irrit. 2 H302; H319; H335; H315	>=1.0 - <=10.0%

Component		Classification	Concentration
Sodium azide			
CAS No. : EC No. :	26628-22-8 247-852-1	**As Per EC Regulation 1272/2008** Acute Tox.oral. 2; Acute Tox. 1; Aquatic Acute 1; Aquatic Chronic 1 H300; H310; H400; H410	>=0.1 - <=1.0%

Component		Classification	Concentration
Cycloheximide			
CAS No. : EC No. : Index-No :	66-81-9 200-636-0 613-140-00-8	**As Per EC Regulation 1272/2008** Acute Tox. oral 1,2; Skin Irrit. 2; Muta. 2; Repr. 1B; Aquatic Chronic 2 H300; H315; H341; H360D; H411	>=0.01 - <=0.1%

Refer Section 16 for complete statement of H codes and its classification

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4 First Aid Measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash with plenty of soap and water. Consult a physician.

In case of eye contact

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of immediate medical attention and special treatment needed

No data available

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5 Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

No data available.

5.2 Special hazards arising from the substance or mixture

Lithium oxides, Carbon oxides, Sodium oxides, Hydrogen chloride gas, Potassium oxides, Sulphur oxides, Nitrogen oxides (NOx)

5.3 Precautions for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary

5.4 Further information

No data available

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6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see Section 13.

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7 Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended Storage Temperature : On receipt store between 10-30°C

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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8 Exposure Controls/Personal Protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the products.

Personal protective equipment

Hygiene measure

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

Eye/face protection

Tightly fitting saftey goggles; Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection

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. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425/EEC and the standard EN ISO 374-1/2016 derived from it.

Body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environment exposure controls

Do not empty into drains.

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9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Cream to yellow coloured homogeneous free flowing powder
Odour	No data available
Odour Threshold	No data available
pH	6.60 - 7.00
Melting/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Flammability (Solid, gas)	No data available
Vapour pressure	No data available

Relative density	No data available
Water Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Vapour density	No data available
Thermal decomposition	No data available

9.2 Other safety information

No data available

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10 Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

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

Refer Section 5.2

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11 Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Carcinogenicity

IARC: No component 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

Aspiration hazard
No data available
Potential Health Effects
Inhalation
REFER SECTION 2
Skin
REFER SECTION 2
Eyes
REFER SECTION 2
Ingestion
REFER SECTION 2
Additional Information
RTECS **:** No data Available

11.2 Components

Potassium thiocyanate
Acute oral toxicity
Mouse LD50: 594 mg/kg
Mouse LD50: 590 mg/kg
Rat LD50: 854 mg/kg
Human oral TDLo: 428 mg/kg
Toxic pychosis, hallucinations, distorted perceptions, gastritis
Human oral LDLo: 80 mg/kg
hallucinations, distorted perceptions, convulsions, muscle weakness.
Rabbit oral LDLo: 500 mg/kg
Guinea pig oral LDLo: 600 mg/kg
Frog oral LDLo: 300 mg/kg
Carcinogencity
Not listed by ACGIH, IARC, NTP or CA Prop 65.
Teratogenicity
No information available

Additional information
RTECS : XL1925000

Lithium chloride
Acute oral toxicity
Rat LD50: 526 mg/kg(As per RTECS)
Acute inhalation toxicity
Rat LC50: >5.57 mg/l; 4 h; aerosol
(As per OECD Test Guideline 403)
Acute dermal toxicity
Rat LD50: >2.000 mg/kg
(As per OECD Test Guideline 403)
Skin irritation
Rabbit
Result:Irritations(As per IUCLID)
Eye irritation

Rabbit
Result:Eye irritation(As per IUCLID)
Germ cell mutagenicity
Genotoxicity in vitro
Ames test
Result: Negative

Additional Information:
RTECS:OJ5950000

Sodium azide
Acute oral toxicity
Rat LD50: 27mg/kg (As per RTECS)
Acute dermal toxicity
LD50 Rabbit: 20mg/kg (As per RTECS)

Additional Information:
RTECS :VY8050000

Cycloheximide
Acute Toxicity
LD50 Oral rat:2mg/kg
Skin Corroison/Irritation
Skin-rabbit Result -Skin irritation-24 h
Germ cell mutagenicity
Lab experiments have shown mutagenic effects
Invitro tests showed mutagenic effects
Reproductive toxicity
May casue congenital malformation in the fetus.
Presumed human reproductive toxicant.
Liver-irregularities-Based on human Evidence

Additional Information
RTECS : MA4375000

Chloramphenicol
Acute Toxicity
LD50 Oral rat:2.500 mg/kg
LD50 Intraperitoneal rat:1.811 mg/kg
LD50Intraperitoneal mouse:1.100 mg/kg
Respiratory or skin sensitization
Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals
Germ cell mutagenicity

Lab experiments have shown mutagenic effects
Possible human carcinogen
IARC: Group 2A Probably carcinogenic to humans (Chloramphenicol)
Reproductive toxicity
May casue congenital malformation in the fetus.
Presumed human reproductive toxicant.
Liver-irregularities-Based on human Evidence

A Dose of about 1 gram can cause : Nausea, burning sensation, sores in the mouth, lesions of the :Throat., sores in
the digestive tract, Tremors, convulsions Shock ., Death may result from ingestion of two to five grams., Prolonged
or repeted expose may cause :, Increased :, bone density, calcium deposits in the ligaments, new bone growth,
vomiting , diarrhea, abdominal pain, To the best of our Knowledge , the chemical ,Physical and toxicological
propertis have not been thoroughly investigated.

Additional Information
RTECS : AB6825000

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12 Ecological Information

12.1 Toxicity

No data available for this mixture
Components:
Potassium thiocyanate
Toxicity to fish
Salvelinus fontinalis (Flow through test) LC50: > 27.9 mg/L;96h
Oncorhynchus mykiss (rainbow trout) LC50: 11 mg/l; 96 h
Toxicity to aquatic invertebrates
Daphnia magna (Water flea)
LC50: 0.629 - <= 32.088 mg/L;96h (Static test)
EC50: 2.8 mg/l; 96 h
Toxicity to aquatic algae and cyanobacteria
Microcystis aeruginosa (Static test) EC50: 47 mg/L;72h
Toxicity to other aquatic organisms
Pandalus montaguil (pink shrimp)LC50: > 6.2 mg/L;48h

Components:
Lithium Chloride
Toxicity to Fish
LC50 Oncorhynchus mykiss (rainbow trout): 158 mg/l; 96 h
(Static test, As per OECD Test Guideline 203)
Toxicity to Daphnia
EC50 Daphnia magna (water flea): 249 mg/l; 48 h

(Static test, As per OECD Test Guideline 202)
Toxicity to Algae
EC50 Desmodesmus subspicatus (green algae):
Static test > 400 mg/l; 72 h
(Static test, As per OECD Test Guideline 201)
Components:
Sodium azide
Toxicity to fish
LC50 Lepomis macrochirus (Bluegil sunfish): 0.7 mg/l; 96 h
Toxicity to Daphnia
EC50 Daphnia pulex (Water flea): 4.2 mg/l; 48 h
Toxicity to algae
IC50 mixed culture of green algae: 272 mg/l
Toxicity to bacteria
EC50 Photobacterium phosphoreum: 38.5 mg/l

12.2 Persistence and degradability
No data available
12.3 Bioaccumulative potential
No data available
12.4 Mobility in soil
No data available
12.5 PBT and vPvB assessment
This preparation contains no substance considered to be persistent,bioaccumulating or toxic (PBT) at levels of 0.1% or higher.
12.6 Other adverse effects
No data available

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13 Disposal Considerations
13.1 Waste treatments methods
Product
Offer surplus and non-recyclable solutions to a licenced disposal company. Contact a licenced professional waste disposal service to dispose off this material.
13.2 Contaminated packaging
Dispose of as unused product.

---

14 Transport Information
14.1 UN-No
ADNR : ADR : IATA_C : IATA_P : IMDG : RID :
14.2 UN proper shipping name

ADNR	:	Not dangerous goods
ADR	:	Not dangerous goods
IATA_C	:	Not dangerous goods
IATA_P	:	Not dangerous goods
IMDG	:	Not dangerous goods

RID : Not dangerous goods

14.3 Transport hazard class(es)

ADNR : - ADR : - IATA_C : - IATA_P : - IMDG : - RID : -

14.4 Packaging group

ADNR : ADR : IATA_C : IATA_P : IMDG : RID :

14.5 Environmental hazards

ADNR : No ADR : No IMDG : Marine pollutant No IATA_C : No IATA_P : No RID : No

14.6 Special precautions for use

No data available

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15 Regulatory Information

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

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

No data available

15.2 Chemical Safety Assessment

No data available

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16 Other information

Text of H codes and classification mentioned in section 3

H300	Fatal if swallowed
H302	Harmful if swallowed
H310	Fatal in contact with skin
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H360D	May damage the unborn child
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
Acute Tox. 1	Acute toxicity, dermal, Category 1
Acute Tox. dermal. 4	Acute toxicity, dermal, Category 4
Acute Tox. oral 1,2	Acute toxicity, oral, Category 1, 2
Acute Tox.inhal. 4	Acute toxicity, inhaled, Category 4
Acute Tox.oral 4	Acute toxicity, oral, Category 4
Acute Tox.oral. 2	Acute toxicity, oral, Category 2
Aquatic Acute 1	Hazardous to the aquatic environment, acute hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, long term hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, long term hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, long term hazard, Category 3
Eye Irrit. 2A	Serious eye damage or eye irritation, Category 2A
Muta. 2	Germ cell mutagenicity, Category 2

Repr. 1B	Reproductive toxicity, Category 1B
Skin Irrit. 2	Skin corrosion or irritation, Category 2
STOT SE 3	Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3

Further Information

The information given in this safety data sheet is believed to be correct yet does not claim to be all inclusive. This document is intended only as a guide for appropriate precautionary handling of the material by properly trained individuals, information here being commensurate with the present state of our knowledge regarding the manner and conditions of use, handling, storage or disposal. The information provided herein shall not be considered as guarantee of the properties of the product. HiMedia Laboratories, shall not be held liable for any damage resulting from improper handling or contact with the above product. Unless explicitly stated on the product or in any of the documentation accompanying the product, it is intended for research or testing purpose only and is not to be used for any other purpose.