



Dehydrated Culture Media
Bases / Media Supplements

Material Safety Data Sheet

Name of the Product		Yeast Morphology Agar															
Code No.		DM 1138															
Section 1	Chemical Identification																
	Code No.	:	DM 1138														
	Name of the Product	:	Yeast Morphology Agar														
	Produced by	:	Central Drug House Pvt. Ltd.														
	Address	:	7/28 Vardaan House, Darya Ganj, New Delhi (INDIA)														
	Tel. No.	:	00 91 11 49404040														
Section 2	Hazards Identification																
	2.1	Classification of the substance or mixture CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP] Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008.															
	2.2	Label elements Labeling according to Regulation (EC) No.1272/2008 <i>The product does not need to be labelled in accordance with EC directives or respective national laws.</i>															
	2.3	Other Hazards None															
Section 3	Composition/Information On Ingredients																
	3.1	Mixture															
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Component	Classification	Concentration
Copper sulphate		
CAS No. : 7758-98-7 EC No. : 231-847-6	As Per EC Regulation 1272/2008 Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A; Aquatic Chronic 1 H302; H315; H319; H410 As Per EC Directive 67/548/EEC or 1999/45/EC Xn; Xi; N R22; R36/38; R50/53	>=0.0001 - <=0.001%

Component	Classification	Concentration
Potassium iodide		
CAS No. : 7681-11-0 EC No. : 231-659-4	As Per EC Regulation 1272/2008 Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A H302; H315; H319	>=0.001 - <=0.01%

Component	Classification	Concentration
Ferric chloride		
CAS No. : 7705-08-0 EC No. : 231-729-4	As Per EC Regulation 1272/2008 Met. Corr. 1; Acute Tox.oral 4; Skin Irrit. 2; Eye Dam. 1 H290; H302; H315; H318	>=0.001 - <=0.01%

Component	Classification	Concentration
Manganese sulphate		
CAS No. : 10034-96-5 EC No. : 232-089-9 Index- No. 025-003-00-4	As Per EC Regulation 1272/2008 STOT RE 2; Aquatic Chronic 2 H373; H411	>=0.001- <=0.01%

Component	Classification	Concentration
Zinc sulphate		
CAS No. : 7446-19-7 EC No. : 231-793-3	As Per EC Regulation 1272/2008 Eye Dam. 1; Aquatic Chronic 1 H318; H410	>=0.001 - <=0.01%

Component	Classification	Concentration
Calcium chloride, anhydrous		
CAS No. : 10043-52-4 EC No. : 233-140-8	As Per EC Regulation 1272/2008 Eye Irrit. 2A H319	>=0.1 - <=1.0%

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



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Section 4	First - Aid Measures
	<p>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 off with soap and plenty of 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.</p> <p>4.2 Most important symptoms and effects, both acute and delayed No data available.</p> <p>4.3 Indication of immediate medical attention and special treatment needed No data available</p>
Section 5	Fire Fighting Measures
	<p>5.1 Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unsuitable extinguishing media No data available.</p> <p>5.2 Special hazards arising from the substance or mixture Carbon oxides, Sulphur oxides, Magnesium oxides, Oxides of phosphorus, Potassium oxides</p> <p>5.3 Precautions for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary</p> <p>5.4 Further information No data available</p>
Section 6	Accidental Release Measures
	<p>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.</p> <p>6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.</p> <p>6.3 Methods and materials for containment and cleaning up Soak up with inert adsorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.</p> <p>6.4 Reference to other sections For disposal see Section 13.</p>
Section 7	Handling and Storage
	<p>7.1 Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.</p> <p>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</p>



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	<p>7.3 Specific end uses Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.</p>																																		
Section 8	<p>Exposure Controls / Personal Protection</p>																																		
	<p>8.1 Control parameters Components with workplace control parameters</p> <p>8.2 Exposure controls <i>Appropriate engineering controls</i> Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the products.</p> <p><i>Personal protective equipment</i> <i>Hygiene measure</i> Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.</p> <p><i>Eye/face protection</i> Tightly fitting safety 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).</p> <p><i>Skin protection</i> 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.</p> <p><i>Body protection</i> 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.</p> <p><i>Respiratory protection</i> 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).</p> <p><i>Environment exposure controls</i> Do not empty into drains.</p>																																		
Section 9	<p>Physical and Chemical Properties</p>																																		
	<p>9.1 Information on basic physical and chemical properties</p> <table> <tr> <td>Appearance</td><td>Cream to yellow coloured homogeneous free flowing powder .</td></tr> <tr> <td>Odour</td><td>No data available</td></tr> <tr> <td>Odour Threshold</td><td>No data available</td></tr> <tr> <td>pH</td><td>5.40 – 5.80</td></tr> <tr> <td>Melting/freezing point</td><td>No data available</td></tr> <tr> <td>Initial boiling point and boiling range</td><td>No data available</td></tr> <tr> <td>Flash point</td><td>No data available</td></tr> <tr> <td>Flammability (Solid, gas)</td><td>No data available</td></tr> <tr> <td>Vapour pressure</td><td>No data available</td></tr> <tr> <td>Relative density</td><td>No data available</td></tr> <tr> <td>Water Solubility</td><td>No data available</td></tr> <tr> <td>Partition coefficient: n-octanol/water</td><td>No data available</td></tr> <tr> <td>Autoignition Temperature</td><td>No data available</td></tr> <tr> <td>Viscosity</td><td>No data available</td></tr> <tr> <td>Explosive properties</td><td>No data available</td></tr> <tr> <td>Oxidizing properties</td><td>No data available</td></tr> <tr> <td>Vapour density</td><td>No data available</td></tr> </table>	Appearance	Cream to yellow coloured homogeneous free flowing powder .	Odour	No data available	Odour Threshold	No data available	pH	5.40 – 5.80	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
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	Thermal decomposition 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 No data available 10.3 Possibility of hazardous reactions No data available 10.4 Conditions to avoid No data available 10.5 Incompatible materials No data available 10.6 Hazardous decomposition products Refer Section 5.2
Section 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 Germ cell mutagenicity 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 Eye REFER SECTION 2 Ingestion REFER SECTION 2 Additional Information RTECS : No data available 11.2 Components Boric Acid Acute Toxicity Rat oral LD50 : 2660 mg/kg



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Rabbit dermal LD50 : 2000 mg/kg
Mouse Oral: LD50 = 3450 mg/kg.
Additional information
RTECS : ED4550000
Specific concentration limits (SCL): >5.5%
Boric acid is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

Calcium chloride
Acute oral toxicity
Rat LD50 : 1,000 mg/kg
(As per IUCLID)
Acute dermal toxicity
Rat LD50 : 2,630 mg/kg
(As per IUCLID)
Skin irritation Rabbit
Result : No irritation
(As per OECD Test Guideline 404)
Eye irritation
Rabbit
Result: Eye irritation
(As per OECD Test Guideline 405)
Causes serious eye irritation.

Additional Information
RTECS: EV9800000

Copper sulphate
Acute oral toxicity
Rat LD50: 482 mg/kg
Acute dermal toxicity
Rat LD50:>2000 mg/kg
Skin irritation
Rabbit Result: Non irritant
Eye irritation
Rabbit Result: Highly irritating
Skin sensitization
Guinea pig Result: Non sensitizing
Genetic toxicity(in-vitro)
Ames test
Result: Negative (As Per OECD Test Guideline 471)
Genetic toxicity(in-vivo)
Mouse Micronucleus assay
Result: Negative
Carcinogenicity
Rat Result: Negative
Toxicity to Reproduction
No data available
Teratogenicity
No data available

Additional information:
RTECS: GL8800000

Ferric chloride
Acute oral toxicity



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Rat LD50: 3,200mg/kg (As per OECD Guideline 401)
Acute inhalation toxicity
No data available
Acute dermal toxicity
Rabbit LD50: > 559mg/kg (As per EPA OPP 81-2)
Skin irritation
Rabbit Result: Non Irritant(As per OECD Guideline 404)
Eye irritation
Rabbit Result: Irreversible effects on the eye (ECHA)
Sensitisation
Guinea pig Result: Not sensitising
Genetic toxicity(in-vitro)
Mammalian cell gene mutation assay
Mouse lymphoma cells Result :Negative
Genetic toxicity(in-vivo)
Mouse Result: Positive (ECHA)
Carcinogenicity
No data available
Toxicity to Reproduction
No data available
Teratogenicity
No data available
Additional information:
RTECS: LJ9100000

Manganese sulphate

Acute oral toxicity
Rat LD50 :2,150 mg/kg
(As per IUCLID) Acute Dermal Toxicity
Rat LD50: Not determined.
Acute Inhalation Toxicity
Rat LC50 : > 4.45 mg/l
(As per OECD Test Guideline 403)
Additional Information
RTECS: OP1050000

Niacin (Nicotinic acid)

Acute oral toxicity
Rat LD50: >5000 mg/kg;24h(ECHA)
Acute dermal toxicity
Rat LD50: >2000 mg/kg;24h(ECHA)
Acute inhalation toxicity
Rat LD50: >3.8 mg/L; 4h(ECHA)
Skin irritation
Rabbit: Does not cause irritation to skin(ECHA)
Eye irritation
Rabbit:May cause slight to mild irritation to eyes(ECHA)
Sensitisation
Nonsensitizer(ECHA)
Repeated Exposures
No significant effect seen on rats(ECHA)
Germ cell mutagenicity
Genotoxicity invitro



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	<p>Chinese hamster Ovary (CHO) Result: Negative(ECHA) Genotoxicity invivo Mammalian Bone Marrow Chromosome Aberration Test Result: Negative(ECHA) Mutagenicity (mammal cell test): micronucleus No data available Carcinogenicity No data available Reproductive toxicity No data available Teratogenicity Rats, 20 d Result: Negative(ECHA) Additional information RTECS QT0525000</p> <p>PABA (Para aminobenzoic acid)(4-aminobenzoic acid) Acute oral toxicity Rat LD50 : 6gm/kg(RTECS) Mouse LD50 : 2850mg/kg Rabbit LD50 : 1830 mg/kg Dog LD50 : 1000 mg/kg Acute inhalation toxicity No data available Acute dermal toxicity No data available Skin irritation No data available Eye irritation No data available Sensitisation STOT :May cause respiratory irritation Genetic toxicity(in-vitro) Ames Test Negative (National Toxicological Program) Germ cell mutagenicity Mouse Causes DNA damage Carcinogenicity IARC Group 3 (It is not established as carcinogen to humans) Toxicity to Reproduction No data available Teratogenicity No data available Additional information: RTECS: No data available</p> <p>Potassium iodide Acute oral toxicity Rat LD50:3118mg/kg; (As Per OECD Test Guideline 401) Acute intravenous toxicity Rat LD50 : 285mg/kg Skin irritation No data available</p>
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	<p>Eye irritation No data available Sensitisation No data available Genetic toxicity(in-vitro) Mammalian cell micronucleus test Result:Negative Genetic toxicity(in-vivo) Rat Chromosome aberration assay Result:Negative Carcinogenicity Rat Not carcinogenic(As per OECD guideline 453) Teratogenicity Rat No developmental toxicity/teratogenicity (ECHA) Additional information: RTECS: TT2975000</p> <p>Zinc Sulphate, Heptahydrate Acute Oral Toxicity Rat LD50: 1,260 mg/kg (As Per RTECS) Additional information RTECS: ZH5300000</p>
Section 12	Ecological Information
	<p>12.1 Toxicity No data available Components: Boric Acid Toxicity to fish Gambusia affinis LC50 :5600 mg/l Rainbow trout LC50:150mg B/L;24d Goldfish LC50:46mg; 7d Toxicity to daphnia and other aquatic invertebrates Daphnia EC50 :115 mg/l</p> <p>Components Calcium chloride Toxicity to fish Lepomis macrochirus (Bluegill sunfish) LC50 : 10,650 mg/l; 96 h (As per IUCLID) Toxicity to daphnia and other aquatic invertebrates Daphnia magna (Water flea) EC50 : 144 mg/l; 48 h (As per IUCLID) Toxicity to algae AlgaeLC50 : 3,130 mg/l; 120 h</p>



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(As per IUCLID)

Component:

Copper sulphate

Toxicity to fish

Oncorhynchus mykiss Flow through test LC50: 200 µg/L;96h

Toxicity to aquatic invertebrates

Daphnia magna(Water flea) Static test LC50: 7 µg/L;48h

Toxicity to aquatic alga and cyanobacteria

Phaeodactylum tricornutum Static test EC10: 2.9 µg/L;72h

Toxicity to terrestrial arthropods

Folsomia fimetaria EC10 :688mg/kg;21d

Components:

Ferric chloride

Toxicity to microorganisms

Activated sludge IC50: ca. 170 mg/L (ECHA)

Components

Manganese sulphate

Toxicity to Fish

Onchorhynchus mykiss (Rainbow trout) LC50 :14.5 mg/l; 96h.

Pimephales promelas (fathead minnow) LC50 : 30.6 mg/l; 96 h.

Toxicity to daphnia and other aquatic invertebrates

Daphnia magna (Water flea) EC50 : 8.3 mg/l; 48 h.

Acute Toxicity to Aquatic Plants

Desmodesmus subspicatus (algae) EC50 61 mg/l; 72 h

(As per OECD Test Guideline 201)

Components

Niacin(Nicotinic acid)

Toxicity to fish

Brown trout (Salmo Trutta Fario)LC50: 520 mg/l; 96 h(ECHA)

Toxicity to daphnia and other aquatic invertebrates

Daphnia magna EC50: 77 mg /L; 48 h(ECHA)

Toxicity to algae

Desmodesmus subspicatus Scenedesmus subspicatus)

EC50: 89.93 mg/L 72 h(ECHA)

Toxicity to microorganisms

Pseudomonas putida EC50: 120 mg /L; 16 h(ECHA)

Pseudomonas putida EC10: 88 mg /L; 16 h(ECHA)

Components

PABA (Para aminobenzoic acid) (4-aminobenzoic acid)

Toxicity to daphnia and other aquatic invertebrates

Daphnia magna (Water flea) EC50 : 546 mg/l; 24 h.

Toxicity to Bacteria

Microtox test

Phytobacterium phosphoreum EC50: 27.4 mg/l; 30 mins.

Components:

Potassium iodide

Toxicity to fish

Oncorhynchus mykiss(Rainbow trout)Static test :LC50:3780 mg/L;96h (As per OECD Guideline 203)

Toxicity to aquatic invertebrates

Daphnia magna(Water flea)Static test:EC50: 10.6mg/L;24h (As per OECD Guideline 202)



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	<p>Toxicity to aquatic algae and cyanobacteria Scenedesmus quadricauda(green algae)Static test:Toxicity threshold: 2370mh/L;7d</p> <p>Components Zinc Sulphate, Heptahydrate Toxicity to fish Oncorhynchus mykiss (rainbow trout)LC50: 0.1 mg/l; 96 h (As Per ECOTOX Database) Toxicity to algae Scenedesmus quadricuada (green algae)IC50: 0.52 mg/l; 5 d (As Per IUCLID)</p> <p>12.2 Persistence and degradability No data available</p> <p>12.3 Bioaccumulative potential No data available</p> <p>12.4 Mobility in soil No data available</p> <p>12.5 PBT and vPvB assessment This substance or mixture contains no components considered to be persistent,bioaccumulating nor toxic (PBT) at levels of 0.1% or higher.</p> <p>12.6 Other adverse effects No data available</p>
Section 13	Disposal Considerations
	<p>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.</p> <p>13.2 Contaminated packaging Dispose of as unused product.</p>
Section 14	Transport Information
	<p>14.1 UN-No ADNR: ADR: IATA_C: IATA_P: IMDG: RID:</p> <p>14.2 UN proper shipping name ADNR : Not dangerous good ADR : Not dangerous good IATA_C : Not dangerous good IATA_P : Not dangerous good IMDG : Not dangerous good RID : Not dangerous good</p> <p>14.3 Transport hazard class (es) ADNR: ADR: IATA_C: IATA_P: IMDG: RID:</p> <p>14.4 Packaging group ADNR: ADR: IATA_C: IATA_P: IMDG: RID:</p> <p>14.5 Environmental hazards ADNR : No ADR : No IMDG : Marine pollutant No IATA_C : No IATA_P : No RID : No</p> <p>14.6 Special precautions for use No data available</p>
Section 15	Regulatory Information
	<p>This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.</p> <p>15.1 Safety health and environment regulations/legislation specific for the substance or mixture No data available</p>



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	15.2 Chemical Safety Assessment No data available	
Section 16	Other Information	
	H290 H302 H315 H317 H318 H319 H360 H373 H410 H411 Acute Tox.oral 4 Aquatic Chronic 1 Aquatic Chronic 2 Eye Dam. 1 Eye Irrit. 2A Met. Corr. 1 Repr.Tox. 1A, 1B Skin Irrit. 2 Skin Sens. 1 STOT RE 2 R22 R36/38 R50/53 N Xi Xn	May be corrosive to metals Harmful if swallowed Causes skin irritation May cause an allergic skin reaction Causes serious eye damage Causes serious eye irritation May damage fertility or the unborn child May cause damage to organs through prolonged or repeated exposure Very toxic to aquatic life with long lasting effects Toxic to aquatic life with long lasting effects Acute toxicity, oral, Category 4 Hazardous to the aquatic environment, long term hazard, Category 1 Hazardous to the aquatic environment, long term hazard, Category 2 Serious eye damage or eye irritation, Category 1 Serious eye damage or eye irritation, Category 2A Corrosive to metals, Category 1 Reproductive toxicity, Category 1A, 1B Skin corrosion or irritation, Category 2 Sensitisation, Skin, Category 1 Specific target organ toxicity, repeated exposure, Category 2 Harmful if swallowed. Irritating to eyes and skin. Very toxic to aquatic organisms, may cause long-term adverse. Effects in the aquatic environment. Dangerous for the environment Irritant Harmful
	Further Information <p>The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user's obligation to investigate and determine the suitability of the information for their particular purpose.</p>	