

Name of the Product MRS Broth, Modified (Lactobacillus Heteroferm Screen Broth)

Code No. DM2164

Section 1 : Chemical Identification

Code No. : DM 2164

Name of the Product : MRS Broth, Modified (Lactobacillus Heteroferm Screen Broth)

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 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 The product does not need to be labelled in accordance with EC directives or respective national laws. 2.3 Other Hazards None

#### 3.1 Mixture

Section 3

Composition/Information On Ingredients

Component		Classification	Concentration
2-phenyl ethanol			
CAS No. :	60-12-8	As Per EC Regulation 1272/2008	>=1.0 - <=10.0%
EC No.:	200-456-2	Acute Tox.oral 4; Acute Tox.	
		dermal. 3; Skin Irrit. 2; Eye Dam. 1	
		H302; H311; H315; H318	

Component		Classification	Concentration
Ammonium citrate			
CAS No. :	3012-65-5	As Per EC Regulation 1272/2008	>=1.0 - <=10.0%
EC No. :	221-146-3	Eye Irrit 2A; STOT SE 3 H319; H335	

Component		Classification	Concentration
Manganese sulphate			
CAS No. :	10034-96-5	As Per EC Regulation 1272/2008	>=0.1 - <=1.0%
EC No. :	232-089-9	STOT RE 2; Aquatic Chronic 2	
Index-No :	025-003-00-4	H373; H411	



If inhaled If breathed in, move person into fresh physician. In case of skin contact Wash off with soap and plenty of wate In case of eye contact Rinse immediately with plenty of wate If swallowed	data sheet to the doctor in attendance. n air. If not breathing, give artificial respiratio	n.		
Cycloheximide  CAS No.: 66-81-9  EC No.: 200-636-0  Index-No: 613-140-00-8  Refer Section 16 for complete statential of the section of the statential of the section of the	Acute Tox. oral 1,2; Skin Irrit. 2; Muta. 2; Repr. 1B; Aquatic Chronic 2 H300; H315; H341; H360D; H411 ment of H codes and its classification  data sheet to the doctor in attendance.  a air. If not breathing, give artificial respiration  er. Consult a physician.  er for at least 15 minutes. Consult a physicia	on. Consult a		
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Rinse immediately with plenty of wate <i>If swallowed</i> Never give anything by mouth to an uphysician.				
Never give anything by mouth to an uphysician.	inconscious person. Rinse mouth with water	Consult a		
physician.	inconscious person. Kinse mouth with water	r. Consult a		
Most important symptoms and effect				
No data available.	s, both acute and delayed			
Indication of immediate medical atter No data available	ntion and special treatment needed			
Fire Fighting Measures				
Extinguishing media				
Suitable extinguishing media				
• • •	n, dry chemical or carbon dioxide.			
No data available.				
	ance or mixture			
	es of phosphorus			
	us for fire fighting if necessary			
	us for the lighting if fiecessary			
No data available				
Accidental Release Measures				
Wear respiratory protection. Avoid brea Evacuate personnel to safe areas.		e ventilation.		
Environmental precautions				
Drayant further leakage ar spillage if so	fe to do so. Do not let product enter drains.			
Methods and materials for containmen				
	Suitable extinguishing media Use water spray, alcohol-resistant foan Unsuitable extinguishing media No data available.  Special hazards arising from the subst: Carbon oxides, Potassium oxides, Oxide Precautions for fire-fighters Wear self contained breathing apparate Further information No data available  Personal precautions, protective equip Wear respiratory protection. Avoid bre Evacuate personnel to safe areas. Environmental precautions	Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unsuitable extinguishing media No data available. Special hazards arising from the substance or mixture Carbon oxides, Potassium oxides, Oxides of phosphorus Precautions for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary Further information No data available  Personal precautions, protective equipment and emergency procedures Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequat Evacuate personnel to safe areas.		



	6.4	Reference to other sections				
	0.4	For disposal see Section 13.				
Section 7	Handling and Storage					
	7.1	Precautions for safe handling				
			d inhalation of vapour or mist. Normal measures for			
	7.2	preventive fire protection.	any incompatibilities			
	7.2	Conditions for safe storage, including a	tly closed in a dry and well-ventilated place. Containers which			
		are opened must be carefully resealed	·			
		Recommended Storage Temperature				
	7.3	Specific end uses	. Officeept store between 10-30 C			
		•	on 1.2 no other specific uses are stipulated.			
Section 8	Evnocuro	: Controls / Personal Protection	<u> </u>			
Section 8	•	•				
	8.1	Control parameters	ara matara			
	8.2	Components with workplace control pa Exposure controls	irameters			
	0.2	Appropriate engineering controls				
			ng. Wash hands before breaks and immediately after handling the			
		products.	ing. Wash hands before breaks and infiniediately after handling the			
		Personal protective equipment				
		Hygiene measure				
			ning. 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 standard	ds 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					
		- ·	act with this product. Dispose contaminated gloves after use in accordance			
			ry practices. Wash and dry hands. The selected protective gloves have to satisfy			
		the specifications of EU Directive				
		89/686/EEC and the standard EN 374 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.				
Section 9	Physical and Chemical Properties					
	9.1 Information on basic physical and chemical properties					
			• •			
		Appearance	Light yellow to bluish grey homogenous free flowing powder			
		Odour	No data available			
		Odour Threshold	No data available			
		рН	4.10 – 4.50			
		Melting/freezing point	No data available			
		Initial boiling point and boiling range	No data available			
		0,				
		Flash point Flammability (Solid, gas)	No data available			



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	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
	Oxidizing properties No data available
	Vapour density No data available
	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
C 11 44	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
1	Aspiration hazard
	No data available
	NO data available
	Potential Health Effects
	Potential Health Effects
	Potential Health Effects Inhalation
	Potential Health Effects Inhalation REFER SECTION 2
	Potential Health Effects Inhalation REFER SECTION 2 Skin



**REFER SECTION 2** 

Ingestion

**REFER SECTION 2** 

**Additional Information** 

RTECS: no data available

#### 11.2 Components

Ammonium citrate

No toxicological data available

#### **Additional information**

RTECS: GE7545000

#### 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

#### Cycloheximide

Acute oral toxicity

Rat LD50: 2mg/kg

Skin Corrosion/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 cause congenital malformation in the fetus.

Presumed human reproductive toxicant.

Liver-irregularities-based on human evidence.

#### Additional information:

RTECS: MA4375000

#### 2-Phenyl ethanol

Acute oral toxicity

Rat LD50: 2,230 mg/kg

Acute inhalation toxicity

No data available

Acute dermal toxicity

Rabbit LD50:>300-2,000 mg/kg

Skin irritation

Rabbit Result: Non Irritant

Eye irritation

Rabbit Result: Irritant

Sensitisation Patch test

Human Result: Negative Ames test Result:Negative



Mutagenicity (mammal cell test)

No data available

Carcinogenicity

No data available

**Toxicity to Reproduction** 

No data available

Teratogenicity

No data available

**Additional information:** 

RTECS: SG7175000

#### Section 12 Ecological Information

#### 12.1 Toxicity

No data available

#### 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:

#### 2-Phenyl ethanol

Toxicity to fish

Leuciscus idus (Golden orfe) LC50: 220 -460 mg/l; 96 h

Toxicity to daphnia and other aquatic invertebrates

Daphnia magna (Water flea) EC50: 287 mg/l; 48 h

Toxicity to algae

Desmodesmus subspicatus (green algae) IC50: 490 mg/l; 72 h

Toxicity to bacteria

Pseudomonas putida EC50: 1,320 mg/l; 17 h

#### 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 substance or mixture contains no components considered to be persistent, bioaccumulating nor toxic (PBT) at levels of 0.1% or higher.

#### 12.6 Other adverse effects

No data available



Section 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.				
Section 14	Transport Information				
	14.1 UN-No				
	ADNR: ADR: IATA_C: IATA_P: IMDG: RID:				
	14.2 UN proper shipping name				
	ADNR : Not dangerous good				
	ADR : Not dangerous good				
	IATA_C : Not dangerous good				
	IATA_C : Not dangerous good				
	IMDG : Not dangerous good				
	RID : Not dangerous good				
	14.3 Transport hazard class (es)				
	ADNR: ADR: IATA_P: IMDG: RID:				
	s14.4 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				
Section 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				
	NO data available				
Section 16	Other Information				
	H300 Fatal if swallowed				
	H302 Harmful if swallowed				
	H311 Toxic in contact with skin				
	H315 Causes skin irritation				
	H318 Causes serious eye damage				
	H319 Causes serious eye irritation				
	Causes serious eye irritation				



H335 May cause respiratory irritation
H341 Suspected of causing genetic defects
H360D May damage the unborn child

H373 May cause damage to organs through prolonged or repeated exposure

H411 Toxic to aquatic life with long lasting effects

Acute Tox. dermal. 3 Acute toxicity, dermal, Category 3
Acute Tox. oral 1,2 Acute toxicity, oral, Category 1, 2
Acute Tox.oral 4 Acute toxicity, oral, Category 4

Aquatic Chronic 2 Hazardous to the aquatic environment, long term hazard, Category 2

Eye Dam. 1 Serious eye damage or eye irritation, Category 1
Eye Irrit. 2A Serious eye damage or eye irritation, Category 2A

Muta. 2Germ cell mutagenicity, Category 2Repr. 1BReproductive toxicity, Category 1BSkin Irrit. 2Skin corrosion or irritation, Category 2

STOT RE 2 Specific target organ toxicity, repeated exposure, Category 2 STOT SE 3 Specific target organ toxicity, single exposure, Respiratory tract

irritation, Category 3

#### **Further Information**

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.