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Version 1

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Identifier** 

Perihalan Produk:

Product Description:

Cat No.:

LSM Agar
LSM Agar
R01540

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

Recommended Use Laboratory chemicals.
Uses advised against No Information available

Details of the supplier of the safety data sheet

Company Thermo Scientific Microbiology Sdn Bhd

No.6, Jalan TTC 6, Taman Teknologi Cheng,

Cheng, 75250 Melaka, Malaysia

+606 334 0975 .

**Supplier** Remel

12076 Santa Fe Drive Lenexa, KS 66215 United States Telephone: 1-800-255-6730

Fax:1-800-621-8251

E-mail address mbd-sds@thermofisher.com

**Emergency Telephone Number** 

(603) 5122 8888

CHEMTREC Malaysia 1-800-815-308 (Malay)

CHEMTREC Malaysia (Kuala Lumpur) +(60)-327884561 (Malay)

## **SECTION 2: HAZARDS IDENTIFICATION**

Classification of the substance or mixture

Label Elements

**Hazard Statements** 

**Precautionary Statements** 

Other Hazards

This product does not contain any known or suspected endocrine disruptors

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

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Component CAS No Weight % Phenol Red 34487-61-1 Trace Caseins, hydrolyzates 65072-00-6 0.1 Meat extracts, beef 68990-09-0 0.27 **D-Mannitol** 69-65-8 0.72 Sodium chloride 7647-14-5 6.69 Sodium pyruvate 113-24-6 Trace 8013-01-2 0.36 Yeast, ext. 9002-18-0 1.17 Agar Sodium carbonate 497-19-8 Trace Peptones 0.36 73049-73-7 Sodium azide 26628-22-8 Trace Gelatins, hydrolyzates 68410-45-7 0.2 7732-18-5 Water 89.97

## **SECTION 4: FIRST AID MEASURES**

Description of first aid measures

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

**Inhalation** Remove to fresh air.

Self-Protection of the First Aider No special precautions required.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

## **SECTION 5: FIREFIGHTING MEASURES**

#### Extinguishing media

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

# Extinguishing media which must not be used for safety reasons

No information available.

## Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

#### **Hazardous Combustion Products**

None under normal use conditions.

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#### Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation.

#### **Environmental precautions**

See Section 12 for additional Ecological Information.

#### Methods and Material for Containment and Cleaning Up

Sweep up and shovel into suitable containers for disposal.

#### Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

# **SECTION 7: HANDLING AND STORAGE**

#### Precautions for Safe Handling

Ensure adequate ventilation.

## Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

#### Specific End Uses

Use in laboratories.

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Control Parameters**

Component	Malaysia	ACGIH TLV	OSHA PEL
Sodium azide		Ceiling: 0.29 mg/m <sup>3</sup>	Skin
		Ceiling: 0.11 ppm	(Vacated) Ceiling: 0.1 ppm
			(Vacated) Ceiling: 0.3 mg/m <sup>3</sup>

	Component	European Union	The United Kingdom	Germany		
Γ	Sodium azide	Skin	Skin	MAK 0.2 mg/m <sup>3</sup> (inhalable)		
ı		TWA 0.1 mg/m <sup>3</sup>	TWA 0.1 mg/m <sup>3</sup>	, ,		
ı		STEL 0.3 mg/m <sup>3</sup>	STEL 0.3 mg/m <sup>3</sup>			

#### **Exposure Controls**

## **Engineering Measures**

None under normal use conditions.

#### Personal protective equipment

Eye Protection Wear safety glasses with side shields (or goggles)

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**Hand Protection** Protective gloves Skin and body protection Long sleeved clothing

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

No protective equipment is needed under normal use conditions **Respiratory Protection** 

Recommended Filter type: Particle filter

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice

No information available **Environmental exposure controls** 

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

**Appearance** 

**Physical State** Solid Gel Consistency Odor No information available No data available **Odor Threshold** No information available pН

Melting Point/Range No data available **Softening Point** No data available **Boiling Point/Range** No information available

Flash Point No information available Method - No information available

No data available **Evaporation Rate** Flammability (solid,gas) No information available **Explosion Limits** No data available

No data available **Vapor Pressure** Vapor Density No data available

Specific Gravity / Density No data available **Bulk Density** No data available Water Solubility No information available Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

No data available **Autoignition Temperature Decomposition Temperature** No data available

**Viscosity** No data available **Explosive Properties** No information available

(Air = 1.0)

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Oxidizing Properties No information available

# **SECTION 10: STABILITY AND REACTIVITY**

Reactivity

None known, based on information available.

**Chemical Stability** 

Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization
Hazardous Reactions
No information available.
No information available.

**Conditions to Avoid** 

None known.

**Incompatible Materials** 

None known.

**Hazardous Decomposition Products** 

None under normal use conditions.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

## Information on Toxicological Effects

#### **Acute Toxicity**

#### Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
D-Mannitol	LD50 = 13500 mg/kg (Rat)				
Sodium chloride	LD50 = 3 g/kg ( Rat )	LD50 > 10000 mg/kg ( Rabbit )	LC50 > 42 mg/L (Rat) 1 h		
Agar	LD50 = 11 g/kg (Rat)				
Sodium carbonate	2800 mg/kg (Rat)	> 2000 mg/kg (rabbit)	2.3 mg/l 2h (Rat)		
Sodium azide	Sodium azide LD50 = 27 mg/kg ( Rat )		LC50 0.054 - 0.52 mg/L (Rat) 4 h		
Water	-	-	-		

## **Chronic Toxicity**

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Carcinogenicity There are no known carcinogenic chemicals in this product

Legend:

X - Listed '-' - Not Listed XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)

SensitizationNo information availableMutagenic EffectsNo information availableReproductive EffectsNo information availableDevelopmental EffectsNo information availableTarget OrgansNo information available

# **SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity effects** 

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Sodium chloride	Pimephals prome: LC50: 7650 mg/L/96h	EC50: 1000 mg/L/48h		
Sodium carbonate	Lepomis macrochirus: LC50: 300 mg/L/96h Gambusia affinis: LC50: 740 mg/L/96h	EC50: = 265 mg/L, 48h (Daphnia magna)		-
Sodium azide	LC50: = 0.7 mg/L, 96h (Lepomis macrochirus) LC50: = 0.8 mg/L, 96h (Oncorhynchus mykiss) LC50: = 5.46 mg/L, 96h flow-through (Pimephales promelas)			

Persistence and degradability No information available

Bioaccumulative potential No information available

Mobility in soil No information available.

Other adverse effects No information available

# **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods

Waste from Residues/Unused

**Products** 

Dispose of in accordance with local regulations

Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal

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## **SECTION 14: TRANSPORT INFORMATION**

IMDG/IMO Not regulated

Road and Rail Transport Not regulated

Not regulated IATA

**Special Precautions for User** No special precautions required

#### **SECTION 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories X = listed

Component	EINECS	TSCA	DSL	PICCS	ENCS	ISHL	IECSC	AICS	KECL
Phenol Red	252-057-8	Х	Х	Х	-		Х	-	KE-02749
Caseins, hydrolyzates	-	Х	Х	Х	Х	Х	Х	Х	KE-05-0318
Meat extracts, beef	-	Х	Х	X	-		Х	Х	KE-23065
D-Mannitol	-	Х	Х	Х	Х	Х	Х	Х	KE-23061
Sodium chloride	-	Х	Х	Х	Х	Х	Х	Х	KE-31387
Sodium pyruvate	204-024-4	Х	Х	Х	X	X	Х	Х	KE-27653
Yeast, ext.	-	Х	Х	Х	-		Х	Х	KE-05-1355
Agar	-	Х	Х	Х	-		Х	Х	KE-00275
Sodium carbonate	-	Х	Х	Х	Х	Х	Х	Х	KE-31380
Peptones	-	Х	Х	Х	Х	X	Χ	Х	KE-28131
Sodium azide	247-852-1	Х	Х	Х	X	Х	Х	Х	KE-31357
Gelatins, hydrolyzates	-	Х	Х	Х	-		Х	Х	KE-17576
Water	231-791-2	Х	Х	Х	Х		Х	Х	KE-35400

#### **National Regulations**

**Persistent Organic Pollutant Ozone Depletion Potential** 

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

# **SECTION 16: OTHER INFORMATION**

#### Legend

**CAS** - Chemical Abstracts Service

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances/EU List of Notified Chemical Substances

Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances IECSC - Chinese Inventory of Existing Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

TWA - Time Weighted Average

**ACGIH** - American Conference of Governmental Industrial Hygienists

IARC - International Agency for Research on Cancer

RPE - Respiratory Protective Equipment

LD50 - Lethal Dose 50%

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LC50 - Lethal Concentration 50%

POW - Partition coefficient Octanol:Water

EC50 - Effective Concentration 50%

**ADR** - European Agreement Concerning the International Carriage of Dangerous Goods by Road

Dangerous Goods by Road

**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

**OECD** - Organisation for Economic Co-operation and Development

**BCF** - Bioconcentration factor

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from

Ships

ATE - Acute Toxicity Estimate

VOC - (Volatile Organic Compound)

#### Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

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In accordance with local and national regulations: Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet** 

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