BIOL-232 – Microbiology List of Media used in Lab

Citrate Agar

EMB Agar

Mannitol Salt Agar

MR-VP Broth

Nutrient Agar

Nutrient Broth

Phenol Red Dextrose Broth

Phenol Red Lactose Broth

Staphylococcus Broth

Starch Agar

Tryptone Broth

Thermofisher scientific

SAFETY DATA SHEET

Revision Date 12-Feb-2015

Revision Number 1

1. Identification

Product Name

SIMMONS CITRATE AGAR

Cat No.:

R454652

Synonyms

No information available

Recommended Use

Laboratory chemicals.

Uses advised against

No Information available

Details of the supplier of the safety data sheet

Company

Remel

12076 Santa Fe Drive

Lenexa, KS 66215 United States

Telephone: 1-800-255-6730

Fax:1-800-621-8251

Emergency Telephone Number

INFOTRAC - 24 Hour Number: 1-800-535-5053

Outside of the United States, call 24 Hour Number: 001-352-323-3500 (Call Collect)

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements

Hazard Statements

Precautionary Statements
Hazards not otherwise classified (HNOC)

None identified

3. Composition / Information on ingredients

Component	CAS-No	Weight %
Sodium chloride	7647-14-5	26.77
Dipotassium phosphate	7758-11-4	5.35
Citrate, sodium, dihydrate	6132-04-3	16.47
Agar	9002-18-0	47.36

4. First-aid measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes.

Inhalation

Move to fresh air.

Ingestion

Do not induce vomiting.

Most important symptoms/effects

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue

and danger of perforation

Notes to Physician

Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media

No information available

Flash Point Method -

No information available No information available

Autoignition Temperature

Explosion Limits

No information available

Upper

No data available No data available

Lower Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge

No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

None known

Protective Equipment and Precautions for Firefighters

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

<u>NFPA</u>

Health

Flammability 0

Instability

Physical hazards N/A

6. Accidental release measures

Personal Precautions

Ensure adequate ventilation. Use personal protective equipment.

Environmental Precautions

See Section 12 for additional ecological information.

Methods for Containment and Clean Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Prevent product from entering drains. Up

7. Handling and storage

Handling

Ensure adequate ventilation.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eve/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State Appearance Odor

Odor Threshold

рΗ

Melting Point/Range Boiling Point/Range Flash Point Evaporation Rate

Flammability (solid,gas)
Flammability or explosive limits

Upper

Lower Vapor Pressure Vapor Density Relative Density

Solubility

Partition coefficient; n-octanol/water

Autoignition Temperature Decomposition Temperature

Viscosity

Powder No information available

No information available No information available No information available No data available No information available No information available

No information available No information available No information available

No data available No data available

No information available No information available No information available No information available

No data available

No information available No information available No information available

10. Stability and reactivity

Reactive Hazard

None known, based on information available

Stability

Stable under normal conditions.

Conditions to Avoid

Incompatible products.

Incompatible Materials

Strong oxidizing agents

Hazardous Decomposition Products None under normal use conditions

Hazardous Polymerization

Hazardous polymerization does not occur.

Hazardous Reactions

None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Oral LD50 **Dermal LD50** Mist LC50 Vapor LC50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 5 mg/l. Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

C			
Component Information	LD50 Oral	LD50 Dermal	LC50 Inhalation
Component		10 g/kg(Rabbit)	42 g/m³ (Rat) 1 h
Sodium chloride	3 g/kg (Rat)	1. 3. 1. 7	Not listed
Dipotassium phosphate	8 g/kg (rat)	Not listed	Not listed
Agar	11 g/kg (Rat)	Not listed	Not listed
Toxicologically Synergistic	No information available		

Toxicologically Synergistic

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation

No information available

Sensitization

No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

						14
0	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Component			Not listed	Not listed	Not listed	Not listed
Sodium chloride	7647-14-5	Not listed			Not listed	Not listed
Dipotassium	7758-11-4	Not listed	Not listed	Not listed	NOT HRIED	1404 (19190
phosphate					3.3. 4.11-4I	Not listed
Citrate, sodium,	6132-04-3	Not listed	Not listed	Not listed	Not listed	NOT listed
dihydrate					A1.131.4	Not listed
Agar	9002-18-0	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects

No information available

Reproductive Effects

No information available.

Developmental Effects

No information available.

Teratogenicity

No information available.

STOT - single exposure STOT - repeated exposure None known None known

Aspiration hazard

No information available

delayed

Symptoms / effects, both acute and Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes

severe swelling, severe damage to the delicate tissue and danger of perforation

Endocrine Disruptor Information

No information available

Other Adverse Effects

The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains.

	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Component Sodium chloride	Not listed	Pimephals prome: LC50: 7650 mg/L/96h	Not listed	EC50: 1000 mg/L/48h

Persistence and Degradability Bioaccumulation/ Accumulation No information available No information available. Mobility

No information available.

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information	
DOT TDG	Not regulated Not regulated	
TDG IATA	Not regulated	
IMDG/IMO	Not regulated	
IMDG/IMO	15. Regulatory information	1

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

	TSCA	DSL.	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL	1
Component	1307	טטב					V	Y	Υ	X	Х	1
Sodium chloride	X	X		231-598-3	<u> </u>		<u> </u>		- :-	-:-	- V	1
	~			231-834-5	-	1	l X	X	X	X		1
Dipotassium phosphate	^			201 00.0			- V		V	Y	_	ı
Citrate, sodium, dihydrate	_	-	-									-
Citrate, souldin, diny drate	- 1/			232-658-1		1	X	\ _ '	l X	X) X	
1 Agar	i X	į X	[-	202-000-1		<u> </u>	<u> </u>	L	<u> </u>	<u></u>		_

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

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).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)

Not applicable

SARA 313

SARA 311/312 Hazardous Categorization

No Acute Health Hazard No Chronic Health Hazard No Fire Hazard No Sudden Release of Pressure Hazard No Reactive Hazard

Clean Water Act

Not applicable

Clean Air Act

Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

SIMMONS CITRATE AGAR

Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals

State Right-to-Know

Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ):

Ν

DOT Marine Pollutant **DOT Severe Marine Pollutant**

Ν Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

Non-controlled

16. Other information

Prepared By

Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

Revision Date

12-Feb-2015

Print Date

12-Feb-2015

Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS



SAFETY DATA SHEET EOSIN METHYLENE BLUE AGAR (Levine)

Date of issue - 07/06/2010.

CM0069

Section 1. Chemical Product and Company Identification

Product No.

CM0069

Trade name

EOSIN METHYLENE BLUE AGAR (Levine)

Manufacturer

Oxoid Limited Wade Road Basingstoke Hants RG24 8PW ENGLAND

Tel: + 44 (0)1256 841144 Fax: + 44 (0)1256 463388

Emergency telephone number

CareChem24: + 44 (0)1865 407333

Section 2. Hazards Identification

Most Important Hazards

Not classified as hazardous.

Human health hazards - Eyes

May cause slight transient irritation.

Human health hazards - Skin

Material may cause slight irritation on prolonged or repeated contact.

Human health hazards - Ingestion

A large dose may have the following effects:- diarrhoea, nausea,

vomiting.

Human health hazards - Inhalation

Exposure to dust at high concentrations may have the following effects:- irritation of nose, throat and respiratory tract.

Section 3. Composition, Information on Ingredients

Hazardous ingredients

This preparation does not contain any substances presenting a health hazard within the meaning of the Dangerous Substances Directive

67/548/EEC.

Section 4. First Aid Measures

First Aid - Eyes

Wash out eye with plenty of water. Obtain medical attention if

soreness or redness persists.

First Aid - Skin

Wash skin with soap and water.

First Aid - Ingestion

Wash out mouth with water. Have victim drink 1-3 glasses of water to

dilute stomach contents.

First Aid - Inhalation

Remove from exposure. Seek medical attention if you feel unwell.

Section 5. Fire Fighting Measures

Extinguishing Media - Suitable

Use water spray, foam, dry chemical or carbon dioxide.

Section 6. Accidental Release Measures

Personal Precautions

Wear appropriate protective clothing.

Spill

Sweep up into suitable containers for recovery or disposal. Finally

flush area with plenty of water.

Section 7. Handling and Storage

Handling

Avoid inhaling dust. Avoid contact with eyes, skin and clothing.

Storage

Store at room temperature. Keep well closed and protected from direct

sunlight and moisture.

SAFETY DATA SHEET EOSIN METHYLENE BLUE AGAR (Levine)

Date of issue - 07/06/2010.

CM0069

Section 8. Exposure Controls, Personal Protection

Protective Measures - Respiratory

Recommended: Approved/certified disposable particulate dust mask.

Protective Measures - Hands

Disposable vinyl gloves.

Protective Measures - Eyes

Safety glasses or chemical goggles to EN166, 167 and 168.

Section 9. Physical and Chemical Properties

Physical state

Powder.

Colour

Purple.

...11

6.6 - 7.0

Section 10. Stability and Reactivity

Stability

Stable under recommended storage and handling conditions (see

section 7). Hygroscopic.

Conditions to Avoid

Exposure to direct sunlight.

Section 11. Toxicological Information

Acute toxicity

Low order of acute toxicity.

Oral LD50 (rat) > 2000 mg/kg. Dermal LD50 (rabbit) > 2000 mg/kg.

Inhalation LC50 (rat) > 20 mg/litre/4h.

Eye irritation

The degree of irritation was insufficient to warrant labelling as an eye

irritant.

Skin irritation

The degree of irritation was insufficient to warrant labelling as a skin

irritant.

Section 12. Ecological Information

Ecotoxicity

No relevant studies identified.

Section 13. Disposal Considerations

Disposal considerations

Non-hazardous waste Dispose of according to all federal, state and

local applicable regulations.

Container information

Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate.

Section 14. Transport Information

UN:

UN number

Not classified.

Section 15. Regulatory Information

Risk Phrases

Not applicable.

Safety Phrases

Avoid contact with skin and eyes.

EC Classification

Not classified.

SAFETY DATA SHEET EOSIN METHYLENE BLUE AGAR (Levine)

Date of issue - 07/06/2010.

CM0069

Section 16. Other Information	
MSDS first issued	28/05/2002
MSDS data revised	07/06/2010
Revisions Highlighted	Date of issue
Notes	Classification and labelling have been performed according to EU directives 67/548/EEC, 88/379/EEC, including amendments and the intended use.

CM Version - 4

Page: 3/3

ThermoFisher

SAFETY DATA SHEET

Revision Date 09-Apr-2015

Revision Number 1

1. Identification

Product Name

MANNITOL SALT AGAR BASE

Cat No.:

R453902, R453904

Synonyms

No information available

Recommended Use

Laboratory chemicals.

Uses advised against

No Information available

Details of the supplier of the safety data sheet

Company

Remel

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

Fax:1-800-621-8251

Emergency Telephone Number

INFOTRAC - 24 Hour Number: 1-800-535-5053

Outside of the United States, call 24 Hour Number: 001-352-323-3500 (Call Collect)

2. Hazard(s) identification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements

None required

Hazards not otherwise classified (HNOC)

None identified

3. Composition / information on ingredients

Commonont	CAS-No	Weight %
Component D-Mannitol	69-65-8	6.32
	9002-18-0	12.19
Agar	8013-01-2	3.61
Yeast, ext. Sodium chloride	7647-14-5	66.83

4. First-aid measures

Eve Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Obtain medical attention.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Inhalation

Move to fresh air. Get medical attention immediately if symptoms occur.

Ingestion

Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Most important symptoms/effects

Notes to Physician

None reasonably foreseeable.

Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

No information available

Flash Point Method -

No information available No information available

No information available

Autoignition Temperature

Explosion Limits

Upper Lower

No data available No data available

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge

No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

None known

Protective Equipment and Precautions for Firefighters

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

NFPA_

Health

Flammability

Instability

Physical hazards

N/A

Personal Precautions

Environmental Precautions

6. Accidental release measures Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

Should not be released into the environment.

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Up

7. Handling and storage

Handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin,

eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State Appearance Odor Odor Threshold

pH Melting Point/Range Boiling Point/Range Flash Point

Evaporation Rate Flammability (solid,gas)

Flammability (solid,gas)
Flammability or explosive limits

Upper Lower Vapor Pressure Vapor Density Relative Density

Solubility
Partition coefficient; n-octanol/water

Autoignition Temperature
Decomposition Temperature

Viscosity

Powder Solid

No information available
No information available
No information available
No information available
No data available
No information available

No data available No data available No information available No information available No information available No information available

No data available No information available No information available No information available

10. Stability and reactivity

Reactive Hazard

None known, based on information available

Stability

Stable under normal conditions.

Conditions to Avoid

Incompatible products. Excess heat. Avoid dust formation.

Incompatible Materials

Strong oxidizing agents

Hazardous Decomposition Products None under normal use conditions

Hazardous Polymerization

Hazardous polymerization does not occur.

Hazardous Reactions

None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Oral LD50 **Dermal LD50** Mist LC50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.

Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

Vapor LC50

Component Information			LOCO la balation
	LD50 Oral	LD50 Dermal	LC50 Inhalation
Component		Not listed	Not listed
D-Mannitol	13500 mg/kg (Rat)		Not listed
Agor	11 g/kg (Rat)	Not listed	
Agar		10 g/kg (Rabbit)	42 g/m ³ (Rat) 1 h
Sodium chloride	3 g/kg(Rat)	TO GING (TRADER)	
Toxicologically Synergistic	No information available		
I AVICAINDICALIV SVIIETUISIIV	140 Illiointation are among		

Toxicologically Synergistic

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation

No information available

Sensitization

No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

		1450	NTP	ACGIH	OSHA	Mexico
Component	CAS-No_	IARC Not listed	Not listed	Not listed	Not listed	Not listed
D-Mannitol	69-65-8	Not listed	Not listed	Not listed	Not listed	Not listed
Agar	9002-18-0	Not listed	Not listed	Not listed	Not listed	Not listed
Yeast, ext.	8013-01-2	Not listed	Not listed	Not listed	Not listed	Not listed
Sodium chloride	7647-14-5	140t listeu	11 t l	<u> </u>		

Mutagenic Effects

No information available

Reproductive Effects

No information available.

Developmental Effects

No information available.

Teratogenicity

No information available.

STOT - single exposure

STOT - repeated exposure

None known

None known

Aspiration hazard

No information available

Symptoms / effects, both acute and No information available

delayed

Endocrine Disruptor Information

No information available

Other Adverse Effects

The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains.

			Microtox	Water Flea
Component	Freshwater Algae	Freshwater Fish		EC50: 1000 mg/L/48h
Sodium chloride	Not listed	Pimephals prome: LC50:	Not listed	EC30, 1000 (lig/E/40)
Souldin Chloride	,,,,,,,,,,,	7650 ma/L/96h		

Persistence and Degradability Bioaccumulation/ Accumulation No information available No information available.

Mobility

No information available.

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport i	nformation
DOT	Not regulated	
DOT TDG	Not regulated	
IATA	Not regulated	
IATA IMDG/IMO	Not regulated	
	15. Regulatory	information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL_
Component							T v	Y	X	l X	ı X I
D-Mannitol	X	Х	-	200-711-8	-		_ ^	_ ^_			
D Manaco				232-658-1			l x	_	X	1 X 1	1 X I
Agar	1 X 1	Х	1 -	232-030-1			 ^ _ 	ļ <u>.</u>			
		~		232-387-9	_	l	l X	-	l X	X	X
Yeast, ext.	X		-	202 001 0			 			1	V
0 11-11-1-		V	_	231-598-3		l	1 X	l X	Į X	X	
Sodium chloride	1 /		I -			<u> </u>					

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

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).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)

Not applicable

SARA 313

Not applicable

SARA 311/312 Hazardous Categorization

No Acute Health Hazard No Chronic Health Hazard No Fire Hazard Sudden Release of Pressure Hazard No No Reactive Hazard

Clean Water Act

Not applicable

Clean Air Act

Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

MANNITOL SALT AGAR BASE

California Proposition 65

This product does not contain any Proposition 65 chemicals

State Right-to-Know

Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ):

Ν

DOT Marine Pollutant

Ν

DOT Severe Marine Pollutant

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

Non-controlled

16. Other information

Prepared By

Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

Revision Date

09-Apr-2015

Print Date

09-Apr-2015

Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS

Thermofisher

SAFETY DATA SHEET

Revision Date 17-Jun-2015

Revision Number 1

1. Identification

Product Name

MOTILITY TEST MEDIUM

Cat No.:

R061408, R061410

Synonyms

No information available

Recommended Use

Laboratory chemicals.

Uses advised against

No Information available

Details of the supplier of the safety data sheet

Company

Remel

12076 Santa Fe Drive

Lenexa, KS 66215 United States

Telephone: 1-800-255-6730

Fax:1-800-621-8251

Emergency Telephone Number

INFOTRAC - 24 Hour Number: 1-800-535-5053

Outside of the United States, call 24 Hour Number: 001-352-323-3500 (Call Collect)

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements

Hazard Statements

Precautionary Statements

Hazards not otherwise classified (HNOC)

None identified

Unknown Acute Toxicity

.? % of the mixture consists of ingredients of unknown toxicity.

3. Composition / information on ingredients

1	Component	CAS-No	Weight %	
	Sodium chloride	7647-14-5	0.09	

Gelatins, hydrolyzates	68410-45-7	0.12
Agar	9002-18-0	0.07
Water	7732-18-5	98

4. First-aid measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes.

Inhalation

Move to fresh air.

Ingestion

Do not induce vomiting.

Most important symptoms/effects

Causes eye burns. May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness,

lightheadedness, chest pain, muscle pain or flushing

Notes to Physician

Treat symptomatically

Fire-fighting measures

Unsuitable Extinguishing Media

No information available

Flash Point Method -

No information available No information available

Autoignition Temperature

Explosion Limits

No information available

Upper Lower No data available No data available

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

None known

Protective Equipment and Precautions for Firefighters

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

NFPA_

Health

Flammability

Instability

Physical hazards

N/A

n

0

6. Accidental release measures

Personal Precautions

Ensure adequate ventilation. Use personal protective equipment.

Environmental Precautions

Avoid release to the environment. Collect spillage. See Section 12 for additional ecological

information.

Methods for Containment and Clean No information available. Uр

7. Handling and storage

Handling

Ensure adequate ventilation.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eve/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

FN166.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if

exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State

No information available Appearance No information available Odor

No information available **Odor Threshold** No information available рΗ No data available

Melting Point/Range No information available Boiling Point/Range No information available Flash Point No information available **Evaporation Rate** No information available

Flammability (solid,gas) Flammability or explosive limits

No data available Upper

No data available Lower No information available Vapor Pressure No information available Vapor Density No information available

Relative Density No information available Solubility

No data available Partition coefficient; n-octanol/water No information available **Autoignition Temperature** No information available **Decomposition Temperature** No information available

Viscosity

10. Stability and reactivity

None known, based on information available Reactive Hazard

Stable under normal conditions. Stability

Incompatible products. **Conditions to Avoid**

Incompatible Materials

Strong oxidizing agents

Hazardous Decomposition Products None under normal use conditions

Hazardous Polymerization

Hazardous polymerization does not occur.

Hazardous Reactions

None under normal processing.

11. Toxicological information

Acute Toxicity

Oral LD50 Dermal LD50 Vapor LC50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

Component information			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium chloride	3 g/kg (Rat)	10 g/kg (Rabbit)	42 g/m³ (Rat) 1 h
Agar	11 g/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic

Products

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation

No information available

Sensitization

No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium chloride	7647-14-5	Not listed				
Gelatins, hydrolyzates	68410-45-7	Not listed				
Agar	9002-18-0	Not listed				
Water	7732-18-5	Not listed				

Mutagenic Effects

No information available

Reproductive Effects

No information available.

Developmental Effects

No information available.

Teratogenicity

No information available.

STOT - single exposure STOT - repeated exposure None known None known

Aspiration hazard

No information available

delayed

Symptoms / effects, both acute and Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling

Endocrine Disruptor Information

of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing No information available

Other Adverse Effects

The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains.

Component Freshwater Algae		lgae Freshwater Fish Microtox		Water Flea
Sodium chloride	Not listed	Pimephals prome: LC50:	Not listed	EC50: 1000 mg/L/48h
		7650 mg/L/96h		

Persistence and Degradability

No information available

Bioaccumulation/ Accumulation

No information available.

Mobility

No information available.

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information	
DOT_	Not regulated	
TDG	Not regulated	
IATA	Not regulated	
IMDG/IMO	Not regulated	200000000000000000000000000000000000000
	15. Regulatory information	

All of the components in the product are on the following Inventory lists: X = listed

International inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Sodium chloride	X	Х	-	231-598-3	-		Х	Х	Х	X	X
Gelatins, hydrolyzates	X	X	-	270-082-2	-		Х	-	Х	Х	X
Agar	X	X	_	232-658-1	-		Х	-	Х	X	Х
Water	X	Х	-	231-791-2	_		Х		Х	Х	Χ

Legend:

- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- 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).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)

Not applicable

SARA 313

Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes Yes Chronic Health Hazard No Fire Hazard Sudden Release of Pressure Hazard No No Reactive Hazard

Clean Water Act

Not applicable

Clean Air Act

Not applicable

OSHA Occupational Safety and Health Administration

Not applicable

CERCLA

Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Water		-	X	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):

Ν

DOT Marine Pollutant

Ν

DOT Severe Marine Pollutant

Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

Non-controlled

16. Other information

Prepared By

Regulatory Affairs

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Print Date

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Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS