

# **SAFETY DATA SHEET**

Revision Date 20-Feb-2015 Revision Number 1

1. Identification

Product Name MRS Agar

Cat No.: R01585

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company Emergency Telephone Number

Remel INFOTRAC - 24 Hour Number: 1-800-535-5053
12076 Santa Fe Drive Outside of the United States, call 24 Hour Number: 001-352-323-3500 (Call Collect)

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

Fax:1-800-621-8251

## 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

None required

## Hazards not otherwise classified (HNOC)

None identified

# 3. Composition / information on ingredients

Component	CAS-No	Weight %
Sodium acetate	127-09-3	0.28
Glucose	50-99-7	1.45
Dipotassium phosphate	7758-11-4	0.19
Polyoxyethylene 20 sorbitan monooleate	9005-65-6	0.09
Ammonium citrate, dibasic	3012-65-5	0.19

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Agar	9002-18-0	1.36
Water	7732-18-5	94.16

### 4. First-aid measures

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

Obtain medical attention.

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

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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. **Suitable Extinguishing Media** 

**Unsuitable Extinguishing Media** No information available

**Flash Point** No information available No information available Method -

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available Lower 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**

11--10

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
1	0	0	N/A

### Accidental release measures

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. **Personal Precautions** Should not be released into the environment. **Environmental Precautions** 

Methods for Containment and Clean Prevent product from entering drains. Sweep up and shovel into suitable containers for Up disposal.

	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.				

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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 Gel

Appearance No information available
Odor No information available
Odor Threshold No information available

pH No information available
Melting Point/Range No data available

Boiling Point/Range

Ro data available

No information available

No information available

Evaporation Rate

No information available

No information available

No information available

No information available

Flammability or explosive limits

Upper No data available
Lower No data available

Vapor Pressure
Vapor Density
Relative Density
Solubility
No information available
No information available
No information available
No information available

Partition coefficient; n-octanol/water No data available

Autoignition TemperatureNo information availableDecomposition TemperatureNo information availableViscosityNo information available

VOC Content(%) 0.28

## 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

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**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

## 11. Toxicological information

**Acute Toxicity** 

**Product Information** 

Oral LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. **Dermal LD50** Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Mist LC50 Based on ATE data, the classification criteria are not met. ATE > 5 mg/l. Vapor LC50 Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

**Component Information** 

Component LD50 Oral		LD50 Dermal	LC50 Inhalation
Sodium acetate	Sodium acetate 3530 mg/kg (Rat)		30 g/m³ (Rat) 1 h
Glucose	25.8 g/kg ( Rat )	Not listed	Not listed
Dipotassium phosphate	8 g/kg (rat)	Not listed	Not listed
Polyoxyethylene 20 sorbitan monooleate	34500 μL/kg(Rat)	Not listed	Not listed
Agar	11 g/kg (Rat)	Not listed	Not listed

**Toxicologically Synergistic** 

**Products** 

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

No information available

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 acetate	127-09-3	Not listed				
Glucose	50-99-7	Not listed				
Dipotassium phosphate	7758-11-4	Not listed				
Polyoxyethylene 20 sorbitan monooleate	9005-65-6	Not listed				
Ammonium citrate, dibasic	3012-65-5	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 None known STOT - repeated exposure 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.

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## 12. Ecological information

### **Ecotoxicity**

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium acetate	-	5000 mg/L LC50 24 h	= 7200 mg/L EC50 Pseudomonas putida 18 h	1000 mg/L EC50 > 48 h
Polyoxyethylene 20 sorbitan monooleate	Not listed	LC50: 471 mg/L/96h (Rainbow trout)	Not listed	Not listed

Persistence and Degradability Bioaccumulation/ Accumulation

No information available No information available.

Mobility

Component	log Pow
Sodium acetate	-4.22

## 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 Not regulated

TDG Not regulated
IATA Not regulated
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
Sodium acetate	Х	Х	-	204-823-8	-		Χ	Χ	Χ	Х	Χ
Glucose	Χ	Х	-	200-075-1	-		Χ	Х	Х	Х	Χ
Dipotassium phosphate	Х	Х	-	231-834-5	-		Χ	Χ	Χ	Х	Χ
Polyoxyethylene 20 sorbitan monooleate	Х	X	-	-	-	>1<6.5 mol ethoxyl ated units		Х	Х	X	Х
Ammonium citrate, dibasic	Χ	Х	-	221-146-3	-		Χ	Χ	Х	Х	Χ
Agar	Χ	X	-	232-658-1	-		Χ	-	Χ	Х	Χ
Water	Χ	Х	-	231-791-2	-		Χ	-	Χ	Х	Χ

### 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.

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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**

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Ammonium citrate, dibasic	3012-65-5	0.19	1.0

### SARA 311/312 Hazardous Categorization

Acute Health Hazard

Chronic Health Hazard

No
Fire Hazard

No
Sudden Release of Pressure Hazard

No
Reactive Hazard

No

## Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Ammonium citrate, dibasic	X	5000 lb	-	-

Clean Air Act

Not applicable

OSHA Occupational Safety and Health Administration

Not applicable

#### **CERCLA**

Component	Hazardous Substances RQs	CERCLA EHS RQs
Ammonium citrate, dibasic	5000 lb	-

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals

### State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ammonium citrate,	X	X	X	-	-
dibasic					
Water	-	-	X	-	-

## U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

### **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

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## 16. Other information

Prepared By Regulatory Affairs

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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**