

Safety Data Sheet

Simmons Citrate Agar, Dehydrated



Section 1

Product Description

Product Name: Simmons Citrate Agar, Dehydrated
Recommended Use: Science education applications
Synonyms: None Known
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Classification:

Other Safety Precautions: Not a dangerous substance according to GHS classification criteria.

Section 3

Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Agar	9002-18-0	61.8
Sodium chloride	7647-14-5	20.6
Sodium Citrate, Dihydrate	6132-04-3	8.2
Potassium Phosphate, Dibasic	7758-11-4	4.1
Ammonium Phosphate, Monobasic	7722-76-1	4.1
Magnesium Sulfate, 7-hydrate	10034-99-8	0.8
Bromothymol Blue, Sodium Salt	34722-90-2	0.4

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: After contact with skin, wash immediately with plenty of water.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5

Firefighting Procedures

Extinguishing Media: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: N/A
Hazardous Combustion Products: None Known

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Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Avoid the generation of dusts during clean-up.

Methods for Clean-up

Ventilate the contaminated area. Avoid the generation of dusts during clean-up. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Vacuum or sweep up material and place in a disposal container.

Section 7

Handling and Storage

Handling: Avoid creating and inhaling dust.

Storage: Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

Section 8

Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Sodium Chloride	N/A	N/A	N/A	N/A
Sodium Citrate, Dihydrate	N/A	N/A	N/A	N/A
Magnesium Sulfate, 7-hydrate	N/A	N/A	N/A	N/A
Bromothymol Blue, Sodium Salt	N/A	N/A	N/A	N/A

Control Parameters

Engineering Measures:

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use. Good general room ventilation should be sufficient to control airborne contaminants to safe levels.

Personal Protective Equipment (PPE):

Lab coat, apron, eye wash, safety shower.

Respiratory Protection:

No respiratory protection required under normal conditions of use.

Respirator Type(s):

None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Wear chemical splash goggles when handling this product. Have an eye wash station available.

Eye Protection:

Skin Protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves:

Natural rubber, Neoprene, PVC or equivalent.

Section 9

Physical Data

Formula: See Section 3

Molecular Weight: N/A

Appearance: White Powder

Odor: None

Odor Threshold: No data available

pH: No data available

Melting Point: No data available

Boiling Point: No data available

Flash Point: No data available

Flammable Limits in Air: N/A

Vapor Pressure: N/A

Evaporation Rate (BuAc=1): N/A

Vapor Density (Air=1): N/A

Specific Gravity: N/A

Solubility in Water: Soluble

Log Pow (calculated): No data available

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Viscosity: No data available

Percent Volatile by Volume: N/A

Section 10

Reactivity Data

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Reactivity:	No data available
Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	Sparks, open flame, other ignition sources, and elevated temperatures.
Incompatible Materials:	Bromine Trifluoride, Lithium, Strong oxidizing agents, Strong acids
Hazardous Decomposition Products:	None Known
Hazardous Polymerization:	Will not occur

Section 11

Toxicity Data

Routes of Entry	Inhalation and ingestion.
Symptoms (Acute):	N/A
Delayed Effects:	No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Agar	9002-18-0	Oral LD50 Mouse 16000 mg/kg		
Sodium Chloride	7647-14-5	Oral LD50 Mouse 4000 mg/kg		
Sodium Citrate, Dihydrate	6132-04-3	No data available	No data available	No data available
Magnesium Sulfate 7-hydrate	10034-99-8			
Bromothymol Blue, Sodium Salt	34722-90-2			

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Sodium Chloride	7647-14-5	Not listed	Not listed	Not listed
Sodium Citrate, Dihydrate	6132-04-3	Not listed	Not listed	Not listed
Magnesium Sulfate 7-hydrate	10034-99-8	Not listed	Not listed	Not listed
Bromothymol Blue, Sodium Salt	34722-90-2	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity:	No evidence of a mutagenic effect.
Teratogenicity:	No evidence of a teratogenic effect (birth defect).
Sensitization:	No evidence of a sensitization effect.
Reproductive:	No evidence of negative reproductive effects.
Target Organ Effects:	
Acute:	See Section 2
Chronic:	N/A

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Section 12

Ecological Data

Overview: This material is not expected to be harmful to the ecology.
Mobility: No data
Persistence: Dissolved into water
Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical Name
Sodium chloride

CAS Number
7647-14-5

Eco Toxicity

96 HR LC50 ONCORHYNCHUS MYKISS 4747 - 7824 MG/L [FLOW-THROUGH]
96 HR LC50 PIMEPHALES PROMELAS 6420 - 6700 MG/L [STATIC]
96 HR LC50 PIMEPHALES PROMELAS 7050 MG/L [SEMI-STATIC]
96 HR LC50 PIMEPHALES PROMELAS 6020 - 7070 MG/L [STATIC]
96 HR LC50 LEPOMIS MACROCHIRUS 12946 MG/L [STATIC]
96 HR LC50 LEPOMIS MACROCHIRUS 5560 - 6080 MG/L [FLOW-THROUGH]
48 HR EC50 DAPHNIA MAGNA 340.7 - 469.2 MG/L [STATIC]
48 HR EC50 DAPHNIA MAGNA 1000 MG/L

Sodium Citrate, Dihydrate
Magnesium Sulfate, 7-hydrate
Bromothymol Blue, Sodium Salt

6132-04-3
10034-99-8
34722-90-2

Not available
No data available

Section 13

Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): Not Determined

Section 14

Transport Information

Ground - DOT Proper Shipping Name:
Not regulated for transport by DOT

Air - IATA Proper Shipping Name:
Not regulated for air transport by IATA.

Section 15

Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Sodium Chloride	7647-14-5	No	No	No	No	No
Sodium Citrate, Dihydrate	6132-04-3	No	No	No	No	No
Magnesium Sulfate, 7-hydrate	10034-99-8	No	No	No	No	No
Bromothymol Blue, Sodium Salt	34722-90-2	No	No	No	No	No

California Prop 65: No California Proposition 65 ingredients

Section 16

Additional Information

Safety Data Sheet

Revised: 03/18/2025

Replaces: 03/13/2024

Printed: 03-18-2025

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health