

Safety Data Sheet

Hektoen Enteric Agar, Dehydrated

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Hektoen Enteric 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;

WARNING



May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.

GHS Classification:

Skin Sensitisation Category 1, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

Acute Toxicity Oral Contains	36.7 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Dermal Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Dust/Mist Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%
Bile Salts No. 3 (CAS # N/A) 12%	See Section 3	18.5
Salicin (CAS # N/A) 2.6%		15.8
Sodium Chloride (CAS # 7647-14-5) 6.6%		11.9
Sodium Thiosulfate (CAS # 7772-98-7) 6.6%		6.6
Iron (III) Ammonium Citrate (CAS # 1185-57-5) 2.0%		4
Bromothymol Blue (CAS # 76-59-5) < 0.1%		2.6
Acid Fuchsin (CAS # 3244-88-0) < 1%		2
Agar and Non-Hazardous Nutrients - Balance		0.1

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Safety Data Sheet

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: Carbon dioxide, Carbon monoxide, Sulfur Oxides, Nitrogen oxides, Ammonia

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. No adverse health affects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Avoid the generation of dusts during clean-up. Poses little or no immediate hazard Avoid dusting. Ventilate the contaminated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. 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. Avoid creating dusts. Eliminate ignition sources. If a vacuum is used, ensure that the material is wetted or otherwise treated so an explosive dust atmosphere is not created within the vacuum. Ventilate the contaminated area. Vacuum or sweep up material and place in a disposal container Wash area with soap and water Avoid creating dusts. Cover material with absorbent and moisten and collect for disposal.

Section 7 Handling and Storage

Handling: Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Avoid creating and inhaling dust.

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

Storage Code: Green - general chemical storage

Section 8 Protection Information

Chemical Name	ACGIH		OSHA PEL	
	(TWA)	(STEL)	(TWA)	(STEL)
Sucrose	10 mg/m3 TWA	N/A	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	N/A
Sodium Chloride	N/A	N/A	N/A	N/A
Iron (III) Ammonium Citrate, Green	1 mg/m3 TWA (as Fe)	N/A	1 mg/m3 TWA (as Fe)	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. Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. Wear a NIOSH approved respirator if any exposure is possible.

Respirator Type(s): NIOSH approved air purifying respirator with dust/mist filter.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.

Safety Data Sheet

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:

Nitrile

Section 9

Physical Data

Formula: See Section 3

Molecular Weight: N/A

Appearance: Colorless to White White Pale yellow Powder
Solid

Odor: None

Odor Threshold: No data available

pH: 7.5 +/- 0.2

Melting Point: 186 C

Boiling Point: 1461 C

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

Reactivity:

No data available

Chemical Stability:

Stable under normal conditions.

Conditions to Avoid:

Exposure to moisture

Incompatible Materials:

Strong acids, Strong oxidizing agents, Bromine Trifluoride, Lithium, Sodium Nitrate,, Metal Nitrates,, Silver, Free Iodine, Acids

Hazardous Decomposition Products:

Ammonia, Nitrogen oxides, Sulfur Oxides, Carbon dioxide, Carbon monoxide

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

Oral LD50 Mouse

16000 mg/kg

Sucrose

Oral LD50 Rat

29700 mg/kg

Lactose

Oral LD50 Rat >

10000 mg/kg

Sodium Chloride

Oral LD50 Rat

3000 mg/kg

Oral LD50 Mouse

4 GM/KG

Sodium Thiosulfate, Anhydrous

Oral LD50 Rat >

5000 mg/kg

Acid Fuchsin

Bromothymol Blue, Sodium Salt

Carcinogenicity:

Chemical Name

CAS Number

IARC

NTP

OSHA

Sodium Chloride

Not listed

Not listed

Not listed

Bromothymol Blue, Sodium Salt

Not listed

Not listed

Not listed

Chronic Effects:

Hektoen Enteric Agar, Dehydrated

Page 3 of 5

Safety Data Sheet

Mutagenicity:	No evidence of a mutagenic effect.
Teratogenicity:	No evidence of a teratogenic effect (birth defect).
Sensitization:	Evidence of a sensitization effect.
Reproductive:	No evidence of negative reproductive effects.
Target Organ Effects:	
Acute:	See Section 2
Chronic:	To the best of our knowledge, the toxicological properties of this mixture have not been thoroughly evaluated.

Section 12 Ecological Data

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

Chemical Name	CAS Number	Eco Toxicity
Sucrose		
Sodium Chloride		96 HR LC50 LEPOMIS MACROCHIRUS 12946 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 1000 MG/L
Sodium Thiosulfate, Anhydrous		96 HR LC50 GAMBUSIA AFFINIS 24000 MG/L [STATIC]
Acid Fuchsin		
Bromothymol Blue, Sodium Salt		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	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
Sucrose		No	No	No	No	No
Sodium Chloride		No	No	No	No	No
Iron (III) Ammonium Citrate, Green		No	No	1000 lb final RQ; 454 kg final RQ	No	No
Acid Fuchsin		No	No	No	No	No
Bromothymol Blue, Sodium Salt		No	No	No	No	No

Section 16 Additional Information

Revised: 09/03/2014 **Replaces: 08/27/2014** **Printed: 04-21-2015**

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

Safety Data Sheet

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