



MATERIAL SAFETY DATA SHEET

Trypticase Soy Agar with Lecithin,
Polysorbate 80, Histidine and Thiosulfate

Date: 02 March 2020
Revision: A

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Name: Trypticase Soy Agar with Lecithin, Polysorbate 80, Histidine and Thiosulfate

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

Identified Uses: Microbiological culture medium

Details of the supplier of the safety data sheet

Supplier: Rapid Micro Biosystems
1001 Pawtucket Blvd
Lowell, MA 01854

Telephone: 978-349-3200
Fax: 978-349-2065

1.3 Emergency Telephone number:

Rapid Micro Biosystems: 978-349-3200

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

GHS Classification in accordance with 29 CFR 1910

Health Hazards

Skin Corrosion/Irritation
Serious Eye Damage/Irritation

Category 2
Category 2A

2.2 GHS Label elements, including precautionary statement

Pictogram



Signal Word: **Warning**

Hazard Statement(s):

Causes skin irritation.
Causes serious eye irritation.

Precautionary Statements(s):

Prevention: Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing. **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. **IF SWALLOWED:** Get medical attention.

Storage: None.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.



MATERIAL SAFETY DATA SHEET

Trypticase Soy Agar with Lecithin,
Polysorbate 80, Histidine and Thiosulfate

Date: 02 March 2020
Revision: A

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS
None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Components

Chemical Identity	Common Names and Synonyms	CAS Number	Content in percent (%)
Nitrogen in Nitrocellulose	Not applicable	9004-70-0	<1
Trypticase Soy Agar	TSA	NA	5
Polysorbate 80	Not Applicable	9005-65-6	<10
Sodium chloride	Not Applicable	7647-14-5	10.8
Sodium Thiosulfate	Not Applicable	7772-98-7	<2%
L-Histidine	Not Applicable	71-00-1	<2%

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

General Information: If you feel unwell, get medical advice/attention.

Eyes: Immediately flush with water for a minimum of 15 minutes. If easy to do, remove contact lenses. Obtain medical attention if irritation occurs.

Skin: Remove contaminated clothing and wash with soap and water. Obtain medical attention if irritation occurs.

Inhalation: Not an expected route of entry.

Ingestion: Consult a medical professional.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Water. Do not use carbon dioxide, dry powder or foam.

5.2 Specific Hazards

In case of fire, nitrous gases could be produced and high flames could occur.

5.3 Advice for Firefighters

Wear standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. Keep fire exposed containers cool using water spray. Cool containers exposed to flames with water until well after fire is out.

5.4 Further Information

none

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Keep unauthorized personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See section 8 for protective clothing.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains or other water sources.



MATERIAL SAFETY DATA SHEET

Trypticase Soy Agar with Lecithin, Polysorbate 80, Histidine and Thiosulfate

Date: 02 March 2020

Revision: A

6.3 Methods and materials for containment and cleaning up

Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear appropriate protective equipment when handling. Do not eat, drink or smoke while handling this material. Obey expiration dates.

7.2 Conditions for safe storage, including any incompatibilities

Store at 2-8°C away from heat and direct sunlight. Do not store with incompatible materials.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

None of the components have exposure limits.

8.2 Exposure Controls

Industrial Hygiene/Ventilation Measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of every workday.

Skin and Body Protection

Wear appropriate protective equipment when handling.

Hygiene Measures: Eyewash station and safety shower. Observe good personal hygiene measures such as washing after handling and before eating, drinking and/or smoking.

Respiratory protection

Respiratory protection not required under normal use.

Eye protection

Safety glasses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form: Gel

Color: Light yellow

Odor: Characteristic

pH: 7.3 ±

Solubility in Water: Soluble

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available.

Flash point: No data available.

Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: No data available

Vapor pressure: No data available

Vapor density: No data available

Viscosity: No data available

SECTION 10: STABILITY AND REACTIVITY



MATERIAL SAFETY DATA SHEET

Trypticase Soy Agar with Lecithin,
Polysorbate 80, Histidine and Thiosulfate

Date: 02 March 2020
Revision: A

Reactivity No data available

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions No data available

Conditions to avoid Heat, sparks, flame.

Incompatible materials Strong oxidizing agents, strong acids, strong bases, amines, fire accelerating substances.

Hazardous decomposition products Nitrous oxides, chlorine.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Ingestion: may be harmful if swallowed; may cause irritation of the gastrointestinal tract.

Inhalation: Not an expected route of entry.

Skin Contact: Causes skin irritation.

Eye Contact: Causes eye irritation.

11.2 Information on Toxicological effects

Acute toxicity

Oral: No data available

Dermal: No data available

Inhalation: No data available

Repeated Dose toxicity: No data available

Skin Corrosion/Irritation: Causes skin irritation

Eye Damage/Irritation: Causes eye irritation

Respiratory or skin sensitizer: Not a sensitizer.

Carcinogenicity: No data available.

Reproductive toxicity: No data available

Germ cell mutagenicity: No data available

Specific target organ toxicity - single exposure: No data available

Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity No data available

Persistence and degradability No data available

Bioaccumulative potential No data available

Mobility in soil No data available

Other adverse effects None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment

Waste treatment and disposal should be in accordance with existing federal, state and local environmental control laws.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

All shipments must adhere to the U.S. Department of Transportation regulatory requirements.

All shipments by air and/or sea must meet applicable regulatory requirements.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not subject to export notification requirements.



MATERIAL SAFETY DATA SHEET

Trypticase Soy Agar with Lecithin,
Polysorbate 80, Histidine and Thiosulfate

Date: 02 March 2020

Revision: A

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): None present or none present in regulated quantities.

United States TSCA Inventory

<u>Name</u>	<u>CAS-No.</u>
Magnesium Chloride	7487-88-9
Polysorbate 80	9005-65-6
Sodium carbonate	497-19-8
Sodium chloride	7647-14-5

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65: No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act: No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List: No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances: No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK: No ingredient regulated by RI Right-to-Know Law present



MATERIAL SAFETY DATA SHEET

Trypticase Soy Agar with Lecithin,
Polysorbate 80, Histidine and Thiosulfate

Date: 02 March 2020

Revision: A

SECTION 16: OTHER INFORMATION

RAPID MICRO BIOSYSTEMS, INC. URGES EACH OF OUR CUSTOMERS, AND ANY OTHER RECIPIENT OF THIS SDS, TO STUDY IT CAREFULLY AND CONSULT EXPERTS, AS NECESSARY OR APPROPRIATE, TO UNDERSTAND THE DATA CONTAINED IN THIS SDS AND ANY HAZARDS ASSOCIATED WITH THE PRODUCT. THE INFORMATION HEREIN IS BELIEVED TO BE ACCURATE AS OF THE EFFECTIVE DATE SHOWN ABOVE. HOWEVER, NO WARRANTY, EXPRESS OR IMPLIED, IS GIVEN, AS TO THE PRODUCT'S QUALITY. NOR DOES THIS SDS CREATE ANY RIGHTS OR LICENSE, EXPRESS OR IMPLIED, TO INTELLECTUAL PROPERTY AND TRADE SECRETS PERTAINING TO THE PRODUCT. REGULATORY REQUIREMENTS ARE SUBJECT TO CHANGE AND MAY DIFFER BETWEEN VARIOUS LOCATIONS. IT IS THE RESPONSIBILITY OF EACH OF OUR CUSTOMERS, AND ANY OTHER RECIPIENT OF THIS SDS, TO ENSURE THAT ITS ACTIVITIES COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS, REGULATIONS, CODES AND ANY OTHER LEGAL OBLIGATIONS. THE INFORMATION PRESENTED IN THIS SDS PERTAINS ONLY TO THE PRODUCT AND USES SPECIFIED ABOVE. GIVEN THE CONDITIONS AND METHODS OF ACTUAL USE OF THE PRODUCT ARE BEYOND OUR CONTROL, IT IS EACH CUSTOMER'S, AND ANY OTHER RECIPIENT'S, DUTY TO DETERMINE THE SPECIFIC CONDITIONS NECESSARY FOR THE SAFE USE OF THIS PRODUCT. WE ARE NOT AND CANNOT BE RESPONSIBLE FOR SDSS OBTAINED FROM ANY SOURCE OTHER THAN OURSELVES. IF YOU HAVE OBTAINED AN SDS FROM ANY SOURCE OTHER THAN RAPID MICRO BIOSYSTEMS, OR IF YOU ARE NOT SURE THAT THE SDS YOU HAVE IS CURRENT, PLEASE CONTACT US FOR THE MOST CURRENT VERSION.