Safety Data Sheet

Tryptone

Section 1  Product Description

Product Name: Tryptone
Recommended Use: Science education applications
Synonyms: Pancreatic Digest of Casein
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;
Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

GHS Classification:

Other Safety Precautions: Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.
May cause irritation.
May cause gastrointestinal discomfort.
May cause irritation to respiratory tract.
May cause irritation to skin.

Acute Toxicity Oral Contains 100 % 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 Gas Contains 100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Vapor 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 #  %
Tryptone  91079-40-2  100

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: Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products: Carbon dioxide, Carbon monoxide
Section 6

**Spill or Leak Procedures**

Steps to Take in Case Material Is Released or Spilled:

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. 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. Vacuum or sweep up material and place in a disposal container.

Section 7

**Handling and Storage**

Handling:
Avoid creating and inhaling dust.

Storage:
Suitable for any general chemical storage.

Storage Code:
Green - general chemical storage

Section 8

**Protection Information**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH (TWA)</th>
<th>ACGIH (STEL)</th>
<th>OSHA PEL (TWA)</th>
<th>OSHA PEL (STEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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.

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

Respiratory Protection:
No respiratory protection required under normal conditions of use.

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

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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula: See Section 3</td>
<td>Vapor Pressure: N/A</td>
</tr>
<tr>
<td>Molecular Weight: N/A</td>
<td>Evaporation Rate (BuAc=1): N/A</td>
</tr>
<tr>
<td>Appearance: Beige Powder</td>
<td>Vapor Density (Air=1): N/A</td>
</tr>
<tr>
<td>Odor: No data available</td>
<td>Specific Gravity: N/A</td>
</tr>
<tr>
<td>Odor Threshold: No data available</td>
<td>Solubility in Water: Soluble</td>
</tr>
<tr>
<td>pH: 6.0 - 7.0 at 25 °C (77 °F)</td>
<td>Log Pow (calculated): No data available</td>
</tr>
<tr>
<td>Melting Point: No data available</td>
<td>Autoignition Temperature: No data available</td>
</tr>
<tr>
<td>Boiling Point: No data available</td>
<td>Decomposition Temperature: No data available</td>
</tr>
<tr>
<td>Flash Point: No data available</td>
<td>Viscosity: No data available</td>
</tr>
<tr>
<td>Flammable Limits in Air: N/A</td>
<td>Percent Volatile by Volume: N/A</td>
</tr>
</tbody>
</table>

Section 10

**Reactivity Data**

Reactivity:
No data available

Chemical Stability:
Stable under normal conditions.

Conditions to Avoid:
None known.

Hazardous Polymerization:
Will not occur
Section 11  Toxicity Data

Routes of Entry: Inhalation and ingestion.
Symptoms (Acute): None Known
Delayed Effects: No data available

Acute Toxicity:
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>91079-40-2</td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

Carcinogenicity:
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>91079-40-2</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

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: No data available
  - Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12  Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: No data
Persistence: No data
Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Eco Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>91079-40-2</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

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:
A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances. Product is for research and development use only.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>§ 313 Name</th>
<th>§ 304 RQ</th>
<th>CERCLA RQ</th>
<th>§ 302 TPQ</th>
<th>CAA 112(2) TQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>91079-40-2</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Section 16

Additional Information

Revised: 08/27/2014
Replaces: 08/27/2014
Printed: 09-12-2014

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