



**Material Safety Data Sheet**

| Section 1: Product and Company Identification |                    |                 |              |
|-----------------------------------------------|--------------------|-----------------|--------------|
| <b>Product Name</b>                           | Tryptic Soy Broth  |                 |              |
| <b>Catalogue Number:</b>                      | AS-1371            |                 |              |
| <b>E-mail:</b>                                | Sales@ausamics.com | <b>Website:</b> | Ausamics.com |

| Section 2: Hazards Identification                                                                                                                                                                                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Classification of the substance or mixture</b><br>Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.                                                                                      |  |
| <b>Label elements</b><br>Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.                                                                                                                  |  |
| <b>Other hazards</b><br>This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. |  |

| Section 3: Composition / Information on Ingredients                         |                                                                                              |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Mixture</b>                                                              |                                                                                              |
| <b>Synonyms</b>                                                             | Casein Soya Broth<br>CASO Broth<br>Soybean Casein digest Broth<br>Tryptone Soya Broth<br>TSB |
| No components need to be disclosed according to the applicable regulations. |                                                                                              |

| Section 4: First Aid Measures                                                                                                                                                            |                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Description of first-aid measures</b>                                                                                                                                                 |                                                                                                         |
| <b>If inhaled</b>                                                                                                                                                                        | After inhalation: fresh air.                                                                            |
| <b>In case of skin contact</b>                                                                                                                                                           | In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. |
| <b>In case of eye contact</b>                                                                                                                                                            | After eye contact: rinse out with plenty of water. Remove contact lenses.                               |
| <b>If swallowed</b>                                                                                                                                                                      | After swallowing: make the person drink water (two glasses at most). Consult doctor if feeling unwell.  |
| <b>Most important symptoms and effects, both acute and delayed</b><br>The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. |                                                                                                         |
| <b>Indication of any immediate medical attention and special treatment needed</b><br>No data available                                                                                   |                                                                                                         |



| Section 5: Fire Fighting Measures                                                                                                                                                                                             |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Extinguishing media</b>                                                                                                                                                                                                    |  |
| <b>Suitable extinguishing media</b><br>Water Foam Carbon dioxide (CO2) Dry powder.                                                                                                                                            |  |
| <b>Unsuitable extinguishing media</b><br>For this substance/mixture no limitations of extinguishing agents are given.                                                                                                         |  |
| <b>Special hazards arising from the substance or mixture</b><br>Carbon oxides<br>Hydrogen chloride gas<br>Sodium oxides<br>Combustible.<br>Development of hazardous combustion gases or vapors possible in the event of fire. |  |
| <b>Advice for firefighters</b><br>In the event of fire, wear self-contained breathing apparatus.                                                                                                                              |  |
| <b>Further information</b><br>Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.                                  |  |

| Section 6: Accidental Release Measures                                                                                                                                                                                                                                |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Personal precautions, protective equipment and emergency procedures</b><br>Advice for non-emergency personnel: Avoid inhalation of dust. Evacuate the danger area, observe emergency procedures, consult an expert.<br>For personal protection see section 8.      |  |
| <b>Environmental precautions</b><br>Do not let product enter drains.                                                                                                                                                                                                  |  |
| <b>Methods and materials for containment and cleaning up</b><br>Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dust. |  |
| <b>Reference to other sections</b><br>For disposal see section 13.                                                                                                                                                                                                    |  |

| Section 7: Handling and Storage                                        |                                                   |
|------------------------------------------------------------------------|---------------------------------------------------|
| <b>Precautions for safe handling</b><br>For precautions see section 2. |                                                   |
| <b>Conditions for safe storage, including any incompatibilities</b>    |                                                   |
| <b>Storage conditions</b>                                              | Tightly closed. Dry.                              |
| <b>Storage class</b>                                                   | Storage class (TRGS 510): 11: Combustible Solids. |

| Section 8: Exposure Controls / Personal Protection                                                                                                                                                                  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Control parameters</b><br>Components with workplace control parameters                                                                                                                                           |  |
| <b>Exposure controls</b>                                                                                                                                                                                            |  |
| <b>Personal protective equipment</b><br><b>Eye/face protection</b><br>Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses. |  |
| <b>Skin protection</b><br>Full contact                                                                                                                                                                              |  |



Material: Nitrile rubber  
Minimum layer thickness: 0,11 mm  
Break through time: 480 min  
Material tested: KCL 741 Dermatril® L  
Splash contact  
Material: Nitrile rubber  
Minimum layer thickness: 0,11 mm  
Break through time: 480 min  
Material tested: KCL 741 Dermatril® L

**Respiratory protection**

required when dust is generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P1

The entrepreneur must ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures must be properly documented.

**Control of environmental exposure**

Do not let product enter drains.

**Section 9: Physical and Chemical Properties**

|                                              |                                                                                  |
|----------------------------------------------|----------------------------------------------------------------------------------|
| Physical state                               | Solid                                                                            |
| Color                                        | No data available                                                                |
| Odor                                         | No data available                                                                |
| Melting point/freezing point                 | No data available                                                                |
| Initial boiling point and boiling range      | No data available                                                                |
| Flammability (solid, gas)                    | No data available                                                                |
| Upper/lower flammability or explosive limits | No data available                                                                |
| Flash point                                  | No data available                                                                |
| Vapor pressure                               | No data available                                                                |
| Autoignition temperature                     | No data available                                                                |
| Decomposition temperature                    | No data available                                                                |
| pH                                           | No data available                                                                |
| Viscosity                                    | Viscosity, kinematic: No data available<br>Viscosity, dynamic: No data available |
| Water solubility                             | No data available                                                                |
| Partition coefficient: n-octanol/water       | No data available                                                                |
| Density                                      | No data available                                                                |
| Relative density                             | No data available                                                                |
| Relative vapor density                       | No data available                                                                |
| Particle characteristics                     | No data available                                                                |
| Explosive properties                         | Not classified as explosive.                                                     |



|                                 |                   |
|---------------------------------|-------------------|
| Oxidizing properties            | none              |
| <b>Other safety information</b> | No data available |

| Section 10: Stability and Reactivity      |                                                                                                                                                                                           |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed. |
| <b>Chemical stability</b>                 | The product is chemically stable under standard ambient conditions (room temperature).                                                                                                    |
| <b>Possibility of hazardous reactions</b> | No data available                                                                                                                                                                         |
| <b>Conditions to avoid</b>                | no information available                                                                                                                                                                  |
| <b>Incompatible materials</b>             | Strong oxidizing agents                                                                                                                                                                   |
| <b>Hazardous decomposition products</b>   | In the event of fire: see section 5.                                                                                                                                                      |

| Section 11: Toxicological Information                                                                                                                                                                                            |                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Information on toxicological effects</b>                                                                                                                                                                                      |                                                                                                                                                                                                                                                             |
| <b>Mixture</b>                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                             |
| <b>Acute toxicity</b>                                                                                                                                                                                                            | Oral: No data available<br>Inhalation: No data available<br>Dermal: No data available                                                                                                                                                                       |
| <b>Skin corrosion/irritation</b>                                                                                                                                                                                                 | No data available                                                                                                                                                                                                                                           |
| <b>Serious eye damage/eye irritation</b>                                                                                                                                                                                         | No data available                                                                                                                                                                                                                                           |
| <b>Respiratory or skin sensitization</b>                                                                                                                                                                                         | No data available                                                                                                                                                                                                                                           |
| <b>Germ cell mutagenicity</b>                                                                                                                                                                                                    | No data available                                                                                                                                                                                                                                           |
| <b>Carcinogenicity</b>                                                                                                                                                                                                           | No data available                                                                                                                                                                                                                                           |
| <b>Reproductive toxicity</b>                                                                                                                                                                                                     | No data available                                                                                                                                                                                                                                           |
| <b>Specific target organ toxicity - single exposure</b>                                                                                                                                                                          | No data available                                                                                                                                                                                                                                           |
| <b>Specific target organ toxicity - repeated exposure</b>                                                                                                                                                                        | No data available                                                                                                                                                                                                                                           |
| <b>Aspiration hazard</b>                                                                                                                                                                                                         | No data available                                                                                                                                                                                                                                           |
| <b>Additional Information</b>                                                                                                                                                                                                    |                                                                                                                                                                                                                                                             |
| <b>Endocrine disrupting properties</b><br><b>Product:</b><br>Assessment                                                                                                                                                          | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
| To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.<br>Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately. |                                                                                                                                                                                                                                                             |



| Section 12: Ecological Information                         |                                                                                                                                                                                                                                                             |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Toxicity</b>                                            |                                                                                                                                                                                                                                                             |
| <b>Mixture</b>                                             | No data available                                                                                                                                                                                                                                           |
| <b>Persistence and degradability</b>                       | No data available                                                                                                                                                                                                                                           |
| <b>Bioaccumulative potential</b>                           | No data available                                                                                                                                                                                                                                           |
| <b>Mobility in soil</b>                                    | No data available                                                                                                                                                                                                                                           |
| <b>Results of PBT and vPvB assessment</b>                  | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.                                                          |
| <b>Endocrine disrupting properties Product: Assessment</b> | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
| <b>Other adverse effects</b>                               | No data available                                                                                                                                                                                                                                           |

| Section 13: Disposal Consideration     |                                                                                                                                                       |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Waste treatment methods Product</b> | Offer surplus and non- recyclable solutions to a licensed company. Contact a licensed professional waste disposal service to dispose of this material |
| <b>Contaminated packaging</b>          | Dispose of as unused product.                                                                                                                         |

| Section 14: Transport Information   |                                                                                        |
|-------------------------------------|----------------------------------------------------------------------------------------|
| <b>UN number</b>                    | ADR/RID: - IMDG: - IATA: -                                                             |
| <b>UN proper shipping name</b>      | ADR/RID: Not dangerous goods<br>IMDG: Not dangerous goods<br>IATA: Not dangerous goods |
| <b>Transport hazard class(es)</b>   | ADR/RID: - IMDG: - IATA: -                                                             |
| <b>Packaging group</b>              | ADR/RID: - IMDG: - IATA: -                                                             |
| <b>Environmental hazards</b>        | ADR/RID: no IMDG Marine pollutant: no IATA: no                                         |
| <b>Special precautions for user</b> | No data available                                                                      |
| <b>Further information</b>          | Not classified as dangerous in the meaning of transport regulations.                   |

| Section 15: Regulatory Information                                                                    |  |
|-------------------------------------------------------------------------------------------------------|--|
| <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> |  |
| This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.      |  |
| <b>Chemical Safety Assessment</b>                                                                     |  |
| For this product a chemical safety assessment was not carried out.                                    |  |



| Section 16: Additional Notes |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Documented By</b>         | Ausamics Life Science<br>Sales@Ausamics.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Revision date</b>         | June 10, 2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Summary of Revisions</b>  | This document has been revised to meet the requirements of the US OSHA HazCom 2012 Standard, which supersedes the existing regulations outlined in 29 CFR 1910.1200, in order to align with the internationally recognized globally Harmonized System of Classification and Labeling of chemicals (GHS).                                                                                                                                                                                                                                                                  |
| <b>Disclaimer</b>            | The information presented in this Safety Data sheet is accurate to the best of our knowledge, information, and belief at the time of publication. It is intended as a guide for the safe handling, use, processing, storage, transportation, disposal, and release of specific materials. However, it should be interpreted as a warranty or quality specification. The provided information pertains solely to the designated material and may not be applicable to its use in combination with other materials or in any process, unless explicitly stated in the text. |