

**MATERIAL SAFETY DATA SHEET****Section 1. Product and Company Information**

<b>Product Name</b>	Tryptophan Broth Base		
<b>Catalogue Number</b>	i23270	<b>Technical Phone:</b>	0098 21 66787291
<b>e-mail:</b>	ibresco@gmail.com	<b>Fax No:</b>	0098 2633523460
<b>Company Address</b>	Zist Kavosh Iranian, No.432, East Kokab Av, 45 Metri Golshahr, Karaj, Iran.		

**Section 2. Composition/Information on Ingredient**

<b>Chemical nature</b>	Mixture of inorganic and organic compounds
<b>Substance Name</b>	Tryptophan Broth Base for microbiology
<b>Mixture</b>	No disclosure requirement according to Regulation (EC) No. 1907/2006

**Section 3. Hazards Identification**

**Health Hazards:** This mixture is not classified as dangerous according to EU legislation.

**Other Hazards:** None known.

**Section 4. First Aid Measures**

**ORAL EXPOSURE:** If swallowed, make victim drink water (two glasses at most). Consult doctor if feeling unwell.

**INHALATION EXPOSURE:** If inhaled, supply fresh air or oxygen.

**DERMAL EXPOSURE:** Remove contaminated clothing. Immediately wash with plenty of water for.

**EYE EXPOSURE:** Rinse opened eye for at least 15 minutes under running water, lifting lower and upper eyelids occasionally. Seek medical attention.

**Section 5. Fire Fighting Measures**

**EXPLOSION HAZARDS:** N/A

**FLASH POINT:** N/A

**ADVISE FOR FIREFIGHTERS:** Special protective equipment for firefighters. In the event of fire, wear self-contained breathing apparatus.

**EXTINGUISHING MEDIA:** Water, Foam, Dry powder, Carbon dioxide (CO<sub>2</sub>).

**FIREFIGHTING:** Prevent fire extinguishing water from contaminating surface water or the ground water system.

**Section 6. Accidental Release Measures**

**PROCEDURE(S) OF PERSONAL PRECAUTION(S):** Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

**Environmental Precautions:** Do not empty into drains.

**METHODS FOR CLEANING UP:** Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up with suitable equipment. Dispose of properly. Clean up affected area.

**Section 7. Handling and Storage**

**HANDLING:** Observe label precautions. Change contaminated clothing. Wash hands after working with substance.

**STORAGE:** Tightly closed. Dry. Requirements to be met by storerooms and receptacles: 2 - 30°C.

**Other Precautions:** No special measures required.

### Section 8. Exposure Controls / PPE

Components with limit values that require monitoring:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

OSHA-PEL: N/A

REL: N/A

TLV: N/A

Additional Information: Personal Protection listed below are general requirements for laboratory personnel. Follow the usual precautionary measures for handling chemicals / powder. Avoid contact with eyes, skin, and clothing.

#### PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand: The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye: Chemical safety goggles.

#### GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Wash contaminated clothing before reuse.

### Section 9. Physical and Chemical Properties

Appearance	Homogenous, free-flowing powder and Cream.	
Property	Value	At Temperature or pressure
pH	7.2 ± 0.2	25 °C
BP/BP Range	N/A	
MP/MP Range	N/A	
Freezing Point	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
Bulk Density	N/A	
Odor Threshold	N/A	
Volatile%	N/A	
VOC Content	N/A	
Water Content	N/A	
Solvent Content	N/A	
Evaporation Rate	N/A	
Viscosity	N/A	
Surface Tension	N/A	
Partition Coefficient	N/A	
Decomposition Temp.	N/A	
Flash Point	N/A	
Explosion Limits	N/A	
Flammability	N/A	
Autoignition Temp	N/A	
Refractive Index	N/A	
Optical Rotation	N/A	
Miscellaneous Data	N/A	
Solubility in Water	16.0 g/l Soluble	
Solids Content	100.0%	

N/A = not available

### Section 10. Stability and Reactivity

#### STABILITY

Chemical Stability: The product is chemically stable under standard ambient conditions (room temperature).

Reactivity: 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.

Avoid strong oxidizing agents.

#### HAZARDOUS DECOMPOSITION PRODUCTS

Carbon oxides, Organic materials may be formed in fire conditions. Fire will produce dense black smoke.

#### HAZARDOUS POLYMERIZATION

No information available.

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**Section 11. Toxicological Information**

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**ROUTE OF EXPOSURE**

Skin irritation: May cause redness and irritation in sensitive individuals

Acute dermal toxicity: This information is not available.

Eye irritation: May cause redness and irritation in sensitive individuals.

Acute inhalation toxicity: May cause irritation in sensitive individuals.

Acute oral toxicity: This information is not available.

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**SIGNS AND SYMPTOMS OF EXPOSURE**

Carcinogenicity Classification: Not listed.

IARC (International Agency for Research on Cancer) - Not listed

NTP (National Toxicology Program) - Not listed

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**Section 12. Ecological Information**

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Toxicity: This product is not classified as hazardous to the environment under U.S. regulations.

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**Section 13. Disposal Considerations**

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**APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION**

Dispose in accordance with all applicable federal (40 CFR 261.3), state, and local environmental regulations.

Smaller quantities can be disposed of with solid waste.

Contact a licensed professional waste disposal service to dispose of this material if questions arise.

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**Section 14. Transport Information**

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**DOT**

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

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**IATA**

Non-Hazardous for Air Transport: Non-hazardous for air transport.

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Marine Pollutant: No

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**Section 15. Regulatory Information**

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Does not apply.

For this product a chemical safety assessment was not carried out.

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**Section 16. Other Information**

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**DISCLAIMER**

For R&D use only. Not for drug, household or other uses.

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**WARRANTY**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. *ibresco* shall not be held liable for any damage resulting from handling or from contact with the above product.

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