

## SAFETY DATA SHEET

Republic of Korea

(In accordance with Article 10 Paragraph 1, Industrial Safety and Health Act)

### Section 1. Chemical product and company identification

A. **Product name** Tryptone Soya Broth (Medimmune) - AD  
**Catalogue Number** CH3A434

**Article Number** CH3A434

B. **Recommended use of the chemical**

Not applicable.

**Restrictions on use**

None identified.

C. **Manufacturer** HyClone Laboratories, Inc.  
**Supplier** 925 West 1800 South  
**Distributor** Logan, Utah 84321  
Phone: (435) 792-8000

GE Healthcare Bio-Sciences Austria GmbH.  
Kremslstr. 5  
4061 Pasching  
AUSTRIA  
Phone: +43 7229 64865  
Fax (+43) 7229 64866

**Emergency telephone number** 82-2-6201-3800  
**(with hours of operation)** (9.00 am - 6.00 pm)

### Section 2. Hazards identification

A. **Hazard classification** Not classified.  
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 3.1%  
Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3.1%

B. **GHS label elements, including precautionary statements**

**Signal word** No signal word.  
**Hazard statements** No known significant effects or critical hazards.  
**Precautionary statements**  
**Prevention** Not applicable.  
**Response** Not applicable.  
**Storage** Not applicable.  
**Disposal** Not applicable.

C. **Other hazards which do not result in classification** None known.

### Section 3. Composition/information on ingredients

**Substance/mixture** Mixture

**Other means of identification** Not available.

**CAS number/other identifiers**

**CAS number** Not applicable.

**EC number** Mixture.

**Product code** CH3A434

Ingredient name	Synonym	CAS number	%
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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

<b>A. Eye contact</b>	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
<b>B. Skin contact</b>	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>C. Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>D. Ingestion</b>	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
<b>E. Notes to physician</b>	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	No specific treatment.
<b>Protection of first-aiders</b>	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

<b>A. <u>Extinguishing media</u></b>	
<b>Suitable</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>Not suitable</b>	None known.
<b>B. Specific hazards arising from the chemical</b>	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	No specific data.
<b>C. Special protective equipment for fire-fighters</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
<b>Special precautions for fire-fighters</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

## Section 6. Accidental release measures

<b>A. Personal precautions, protective equipment and emergency procedures</b>	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
<b>B. Environmental precautions</b>	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
<b>C. <u>Methods and materials for containment and cleaning up</u></b>	
<b>Small spill</b>	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
<b>Large spill</b>	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

<b>A. Precautions for safe handling</b>	
<b>Protective measures</b>	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
<b>Advice on general occupational hygiene</b>	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.



<b>B. Conditions for safe storage, including any incompatibilities</b>	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
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## Section 8. Exposure controls/personal protection

### A. Control parameters

#### Occupational exposure limits

None.

<b>B. Appropriate engineering controls</b>	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Environmental exposure controls</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
<b>C. Personal protective equipment</b>	
<b>Respiratory protection</b>	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
<b>Eye protection</b>	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
<b>Hand protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
<b>Skin protection</b>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Hygiene measures</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## Section 9. Physical and chemical properties

### A. Appearance

<b>Physical state</b>	Liquid.
<b>Color</b>	Clear. Brown.
<b>B. Odor</b>	Not available.
<b>C. Odor threshold</b>	Not available.
<b>D. pH</b>	7.1 to 7.5
<b>E. Melting/freezing point</b>	Not available.
<b>F. Boiling point/boiling range</b>	Not available.
<b>G. Flash point</b>	Not available.
<b>Burning time</b>	Not applicable.
<b>Burning rate</b>	Not applicable.
<b>H. Evaporation rate</b>	Not available.
<b>I. Flammability (solid, gas)</b>	Not available.
<b>J. Lower and upper explosive (flammable) limits</b>	Not available.
<b>K. Vapor pressure</b>	Not available.
<b>L. Solubility</b>	Not available.
<b>Solubility in water</b>	Not available.
<b>M. Vapor density</b>	Not available.
<b>N. Relative density</b>	Not available.
<b>O. Partition coefficient: n-octanol/water</b>	Not available.
<b>P. Auto-ignition temperature</b>	Not available.
<b>Q. Decomposition temperature</b>	Not available.
<b>SADT</b>	Not available.
<b>R. Viscosity</b>	Not available.



S. **Molecular weight** Not applicable.

## Section 10. Stability and reactivity

- A. **Chemical stability** The product is stable.
- Possibility of hazardous reactions** Under normal conditions of storage and use, hazardous reactions will not occur.
- B. **Conditions to avoid** No specific data.
- C. **Incompatible materials** No specific data.
- D. **Hazardous decomposition products** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### A. Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal.

#### Potential acute health effects

- Respiratory** No known significant effects or critical hazards.
- Oral** No known significant effects or critical hazards.
- Skin** No known significant effects or critical hazards.
- Eyes** No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Inhalation** No specific data.
- Ingestion** No specific data.
- Skin contact** No specific data.
- Eye contact** No specific data.

### B. Health hazards

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Not available.

#### Sensitization

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

#### Potential chronic health effects

##### Chronic toxicity

Not available.

- General** No known significant effects or critical hazards.
- Carcinogenicity** No known significant effects or critical hazards.
- Mutagenicity** No known significant effects or critical hazards.



<b><u>Teratogenicity</u></b>	No known significant effects or critical hazards.
<b>Developmental effects</b>	No known significant effects or critical hazards.
<b>Fertility effects</b>	No known significant effects or critical hazards.

**ATE value**

Not available.

**Section 12. Ecological information****A. Aquatic and terrestrial toxicity**

Not available.

**B. Persistence/degradability**

Not available.

**C. Bioaccumulative potential**

Not available.

**D. Mobility in soil**Soil/water partition coefficient (K<sub>oc</sub>) Not available.**E. Other adverse effects** No known significant effects or critical hazards.**Section 13. Disposal considerations**

- A. Disposal methods** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- B. Disposal precautions** This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Section 14. Transport information****UN**

- A. UN number** Not available.
- B. Proper shipping name** Not available.
- C. Classes** Not available.
- D. Packing group** -
- E. Marine pollutant** No.
- F. Additional information** -
- Label

**IMDG**

- A. UN number** Not available.
- B. Proper shipping name** Not available.
- C. Classes** Not available.
- D. Packing group** -
- E. Marine pollutant** No.
- F. Additional information** -
- Label

**IATA**

- A. UN number** Not available.
- B. Proper shipping name** Not available.
- C. Classes** Not available.
- D. Packing group** -
- E. Marine pollutant** No.
- F. Additional information** -
- Label



**Special precautions for user** **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

### A. Regulation according to ISHA

ISHA Article 37 None of the components are listed.  
ISHA Article 38 None of the components are listed.

### B. Regulation according to TCCA

TCCA Toxic chemicals Not applicable  
TCCA Observational chemicals None of the components are listed.  
TCCA Article 32 (Banned) None of the components are listed.  
TCCA Article 32 (Restricted) None of the components are listed.  
TCCA Article 17 (TRI) None of the components are listed.  
Korea inventory Not determined.

### C. Dangerous Materials Control Act

Not available.

### D. Wastes regulation

Dispose of contents and container in accordance with all local, regional, national and international regulations.

### E. Regulation according to other foreign laws

Europe inventory Not determined.  
United States inventory (TSCA 8b) Not determined.  
  
Japan inventory Not determined.  
Safety, health and environmental regulations specific for the product No known specific national and/or regional regulations applicable to this product (including its ingredients).

## Section 16. Other information

A. References Not available.  
B. Date of issue/Date of revision 28 December 2015  
C. Version 1  
Date of printing 29 December 2015  
alois.tschida@ge.com

### D. Other

Indicates information that has changed from previously issued version.

Key to abbreviations

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

