# **Material Safety Data Sheet**

Canada English

Section 1. Chemical product and company identification

**Product name** Trypticase Soy Broth (TSB) Single strength, Bottled

Broth, 100 ml

Catalogue Number 10496707

Material uses Industrial applications: Analytical chemistry. Research.

Product type

Validation date 23 September 2011 Print date 23 September 2011 GE Healthcare UK Ltd Supplier Amersham Place Little Chalfont

Buckinghamshire HP7 9NA

England

+44 0870 606 1921

In case of emergency ChemTrec (US) 1-800-424-9300

Canada ChemTrec (US) 1-703-527-3887

#### Hazards identification 2.

Physical state Liquid. Not available. Odor

**Emergency overview** 

NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED

INSTRUCTIONS FOR USE ARE FOLLOWED.

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Precautionary measures

Dermal contact. Inhalation. Ingestion. Routes of entry

Potential acute health effects

No known significant effects or critical hazards. Eves Skin No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards. No known significant effects or critical hazards. Ingestion

Potential chronic health effects

Chronic effects No known significant effects or critical hazards. No known significant effects or critical hazards. Carcinogenicity No known significant effects or critical hazards. Mutagenicity **Teratogenicity** No known significant effects or critical hazards. No known significant effects or critical hazards. **Developmental effects** No known significant effects or critical hazards. Fertility effects

Not available. **Target organs** 

Over-exposure signs/symptoms

Inhalation No specific data. Ingestion No specific data. No specific data. Skin No specific data. Eyes None known.

Medical conditions aggravated by

over-exposure

See toxicological information (Section 11)



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#### 3. Composition/information on ingredients

There are no 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.

# Section 4. First aid measures

Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 Eye contact

minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur. Skin contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get

medical attention if symptoms occur.

Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, Inhalation

provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt

or waistband. Get medical attention if symptoms occur.

Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never Ingestion

give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training.

Notes to physician No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

# Section 5. Fire-fighting measures

Flammability of the product In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing media

Suitable Use an extinguishing agent suitable for the surrounding fire.

Not suitable

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No Special exposure hazards

action shall be taken involving any personal risk or without suitable training.

Hazardous combustion products

Special protective equipment for

fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA)

with a full face-piece operated in positive pressure mode.

#### Section 6. Accidental release measures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding Personal precautions

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled

material. Put on appropriate personal protective equipment (see Section 8).

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform **Environmental precautions** 

the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, Methods for cleaning up

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.

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Small spill

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.

# Section 7. Handling and storage

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be Handling

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.

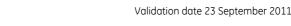
Store in accordance with local regulations. Store in original container protected from direct sunlight in a Storage

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

#### Consult local authorities for acceptable exposure limits.

Recommended monitoring

procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures

and/or the necessity to use respiratory protective equipment.

**Engineering measures** 

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any

recommended or statutory limits.

Hygiene measures

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.

Personal protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk Respiratory

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.

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.

Safety eyewear complying with an approved standard should be used when a risk assessment indicates Eves this is necessary to avoid exposure to liquid splashes, mists or dusts.

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.

**Environmental exposure** 

controls

Hands

Skin

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.

# Section 9. Physical and chemical properties

Physical state

Flash point [Product does not sustain combustion.]

0% (v/v) Volatility

VOC 0 % (w/w) [ISO 11890-1]

Not available. Solubility

# Section 10. Stability and reactivity

Stability The product is stable. Conditions to avoid No specific data.

Hazardous decomposition

Possibility of hazardous reactions

products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous reactions will not occur.

# Section 11. Toxicological information

**Acute toxicity** 

Product/ingredient name Result Species Dose Exposure

Not available.

Not available Conclusion/Summary

Classification

Product/ingredient name **ACGIH** IARC **EPA** NIOSH NTP **OSHA** 

Not available

Synergistic products Not available

# Section 12. Ecological information

**Environmental effects** No known significant effects or critical hazards.

Partition coefficient: n-

Not available.

octanol/water

Not available

**Bioconcentration factor** 

Other adverse effects No known significant effects or critical hazards.



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# Section 13. Disposal considerations

The generation of waste should be avoided or minimized wherever possible. Significant quantities of Waste disposal

waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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.

RCRA classification Not available.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

# Section 14. Transport information

#### International transport regulations

Not classified

# Section 15. Regulatory information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS (Canada) Not controlled under WHMIS (Canada).

**Canadian lists** CEPA Toxic substances: None of the components are listed.

> Canadian ARET: None of the components are listed. Canadian NPRI: None of the components are listed.

Alberta Designated Substances: None of the components are listed. Ontario Designated Substances: None of the components are listed. Quebec Designated Substances: None of the components are listed.

Canada inventory All components are listed or exempted.

# International regulations

International lists Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted. Japan inventory: All components are listed or exempted. Korea inventory: All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

Chemical Weapons Convention

List Schedule I Chemicals

**Chemical Weapons Convention** 

List Schedule II Chemicals

Not listed

**Chemical Weapons Convention** 

List Schedule III Chemicals

Not listed

Not listed

# Section 16. Other information

The customer is responsible for determining the PPE code for this material.



Indicates information that has changed from previously issued version.

History

23 September 2011 Date of printing Date of previous issue No previous validation

23 September 2011 Date of issue Version

Notice to reader



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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.



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