



Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH), Annex II

Trade Name: Human TSH 98% Pure
Material. No.: H6T04-323
Specification: H6T04-323

Version: 1.0
Page: 1 of 5

Revision: 002
Revision Date: 12 JUN 2015

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY UNDERTAKING

Identification of the Substance or Preparation: Human Thyroid Stimulating Hormone (TSH) 98% Pure,
Catalog # H6T04-323, lyophilized from Ammonium Bicarbonate.

REACH Registration No: Not Applicable

Use of the Substance/Preparation:

Identified Use(s): For *in vitro* laboratory use. For professional use only.

Company Undertaking Identification:

Meridian Life Science, Inc.
5171 Wilfong Road
Memphis, TN 38134 U.S.A.
901-382-8716

E-Mail: info@meridianlifescience.com

EMERGENCY TELEPHONE: US – 1-800-424-9300
International – 1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification: Void

Information Pertaining to Special Dangers for Human and Environment:

This mixture does not require labeling, based on the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest version. This mixture is not classified as hazardous according to the EC Dangerous Preparations Directive (1999/45/EC) or EC 1272/2008 (CLP).

Classification System

The classification is in alignment with current EC (European Community) Directives. It is expanded with information from technical literature.

Physical Hazards: Not classified as a physical hazard.

Health Hazard: Not classified as a health hazard.

Environmental Hazard: Not classified as environmental hazard.

Precautionary Statements: The chemical, physical and toxicological properties of this mixture have not been thoroughly characterized. Avoid contact with eyes and skin. Do not inhale. This mixture contains material of animal origin and should be considered as potentially capable of transmitting infectious disease.

Potential Health Effects:

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation and/or coughing.

Eyes: May cause eye irritation and/or redness.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Ingestion: May be harmful if swallowed. No specific data.

Chronic Effects: No data available.

Target Organs: No data available.



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3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterization (Hazardous Chemical Ingredients):

None

Dangerous Components According to EC Criteria: None

Additional Information: For wording of the listed risk phrases, refer to Section 16.

All human source materials have tested non-reactive for HIV1, HIV2, HCV antibodies, HBsAg and HIV-Ag by FDA approved methods. No test guarantees a product to be non-infectious. Therefore, all material derived from human fluids or tissues should be considered as potentially infectious.

4. FIRST AID MEASURES

In Case of Inhalation: Move exposed person to fresh air. Seek medical attention if cough symptoms occur.

In Case of Skin Contact: Wash off with soap and plenty of water. Seek medical attention if symptoms occur.

In Case of Eye Contact: Remove contact lenses if necessary. Immediately flush eyes with plenty of water as a precaution. Seek medical attention if symptoms occur.

In Case of Ingestion: Rinse out mouth with water. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention if symptoms occur.

Self-Protection of the First Aider: Follow company specific safety procedures.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use extinguishing media suitable for surrounding fire, such as carbon dioxide, chemical foam, dry chemical or water spray.

Extinguishing Media Which Must Not Be Used for Safety Reasons: Unknown.

Special Exposure Hazards Arising From the Substance or Preparation Itself, Combustion Products, Resulting Gases: Dilute aqueous solution not considered a fire hazard.

Special Protective Equipment for Fire-Fighters: Fire fighters should wear NIOSH-approved or self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: See Section 8.

Environmental Precautions: Follow proper disposal procedures.

Methods for Cleaning Up: Wear suitable personal protective clothing. Material needs to be handled observing all universal precautions if liquid, use absorbent material to absorb spill. Put into a closed container for appropriate waste disposal. Clean spill area thoroughly. For disposal observe all applicable federal, state, local and provincial environmental and waste regulations per Section 13.



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7. HANDLING AND STORAGE

Handling: Follow good laboratory hygiene practices. See Section 8, Engineering Controls. Minimize contact and contamination of personal clothing and skin. Wash hands and forearms thoroughly after handling products, before eating, smoking and using the lavatory and at the end of the working period.

Storage: Store lyophilized product at -20°C. After reconstitution, store at -20°C. Avoid multiple freeze/thaw cycles. Store in original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values:

Exposure Controls: This product is not expected to require special ventilation controls. Facilities storing or using this product should be equipped with an eyewash fountain.

Personal Protection Equipment:

Respiratory Protection: A respirator is not expected to be required under normal conditions of use.

Hand Protection: Wear chemical resistant protective gloves.

Eye Protection: Wear appropriate protective safety eye glasses or goggles.

Body Protection: Wear lab coat or other protective garments. Remove contaminated clothing promptly.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder

Physical State: Solid

Color: Not Available

Odor: Not Available

| Parameter | Value |
|--|----------------|
| pH (20°C): | Not Applicable |
| Melting Point/Range (°C): | Not Available |
| Boiling Point/Range (°C): | Not Available |
| Flash Point (°C): | Not Applicable |
| Ignition Temperature (°C): | Not Applicable |
| Vapor Pressure (°C): | Not Available |
| Density (g/cm ³): | Not Available |
| Bulk Density (kg/m ³): | Not Available |
| Water Solubility (20°C in g/L): | Fully Miscible |
| Partition Coefficient n-Octanol/Water (log Po/w): | Not Available |
| Viscosity, Dynamic (mPa s): | Not Available |
| Dust Explosion Hazard: | Not Applicable |



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10. STABILITY AND REACTIVITY

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

Stability: Stable under ordinary conditions of storage and use.

Conditions to Avoid: No decomposition if used and stored according to specifications.

Materials to Avoid: Avoid strong oxidizers, strong acids and bases, heavy metals and their salts.

Hazardous Decomposition Products: Under normal condition of storage and use, hazardous composition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Routes of exposure may include inhalation, skin absorption, and eye and skin contact.

Acute Toxicity: No data available.

Irritant and Corrosive Effects: No data available.

Sensitization: No data available.

Carcinogenicity: No data available. None of the components in this product at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

Mutagenicity: No data available.

Reproductive Effects: No data available.

Teratogenicity: No data available.

Additional Toxicological Information: This product is not subject to classification, according to the calculation method of the General EC Classification Guidelines for preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects according to our experience and information available to us.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Mobility in Environmental Compartments: No data available.

Adsorption/Desorption: No data available.

Persistence and Degradability: No data available.

Physical- and Photo-Chemical Elimination: No data available.

Biodegradation: No data available.

Bioaccumulative Potential: No data available.

13. DISPOSAL CONSIDERATIONS

Appropriate Disposal / Product: Wear suitable personal protective clothing. Material needs to be handled observing all universal precautions if liquid, use absorbent material to absorb spill. Put into a closed container for appropriate waste disposal. Clean spill area thoroughly. For disposal observe all applicable federal, state, local and provincial environmental and waste regulations.



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14. TRANSPORT INFORMATION

Land Transport (ADR/RID/GGVSE): Not restricted. Not regulated as hazardous goods.

Sea Transport (IMDG-Code/GGVSee): Not restricted. Not regulated as hazardous goods.

Air Transport (ICAO-IATA/DGR): Not restricted. Not regulated as hazardous goods.

15. REGULATORY INFORMATION

EU Regulations:

Chemical Safety Assessment: Observe general laboratory safety regulations when handling chemicals.
This product is not subject to identification regulations under EC Directives.

16. OTHER INFORMATION

Exposure Scenarios:

Routes of exposure may include inhalation, skin absorption, and eye and skin contact.

Exposure Controls:

Observe general laboratory safety regulations when handling chemicals. This product is not expected to require special ventilation controls. Facilities storing or using this product should be equipped with an eyewash fountain.

Personal Protection Equipment:

Respiratory Protection: A respirator is not expected to be required under normal conditions of use.

Hand Protection: Wear chemical resistant protective gloves.

Eye Protection: Wear appropriate protective safety eye glasses or goggles.

Body Protection: Wear lab coat or other protective garments. Remove contaminated clothing promptly.

This Safety Data Sheet (SDS) was prepared in accordance with the hazard criteria and content requirements of the EU Dangerous Substances Directive (67/548/EEC), Dangerous Preparations Directive (1999/45/EC), the Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) (EC) No 1907/2006 and EC 1272/2008 Classification, Labeling, Packaging (CLP). These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The information contained in this SDS is believed to be accurate but does not purport to be all inclusive and should be used only as a guide for experienced personnel. It is the responsibility of the user or supplier to determine the applicability of the data to the formulation of necessary safety precautions. Meridian Life Science, Inc. shall not be held liable for any damage resulting from the use of the above product or the information contained in this SDS.