

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

CHEMTREC (24hr) 1-800-424-9300

Section 1: Identification

Product Name Liothyronine Sodium USP (T3)

Commercial Name Not available.

Product Use Active pharmaceutical substance

Restrictions On Use Not available.

Product Code 55-3090

Company PCCA In case of emergency contact:

9901 South Wilcrest Houston, TX 77099 Phone: 1-800-331-2498 Fax: 1-800-874-5760

Section 2: Hazard(s) Identification

OSHA Haz Com: Acute Toxicity, Category 3 Specific target organ toxicity, repeated exposure, Category 1

CFR 1910.1200

Signal Word DANGER

Hazard Statement(s) Toxic if swallowed. Causes damage to organs through prolonged or repeated exposure.

Pictogram(s) or Symbol(s)





Precautionary Statement(s):

Prevention Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling.

Response If swallowed: Immediately call a poison center/doctor. Rinse mouth. Get medical advice/attention if you

feel unwell.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance

Components Liothyronine Soduim USP

% By Weight 100

CAS# 55-06-1

Molecular Weight 672.96 g/mole
Chemical Formula C15H11I3NO4.Na
Synonym(s) Triiodothyronine

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50	
Liothyronine Soduim USP	55-06-1	100	Not available.	Not available.	

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Section 4: First-Aid Measures

Inhalation Slight inhalation allows the victim to rest in a well ventilated area. Seek medical attention. Hazardous

inhalation remove source of contamination or move victim to fresh air. If breathing has stopped,

cardiopulmonary resusetation (CPR) immediately (use protective mask with one way valve). If breathing is

difficult give oxygen. Seek medical attention.

Skin Contact Skin contact flushes the contact area with lukewarm running water. Hazardous skin contact flushes the

contact area with lukewarm running water for at least 15 minutes. Remove contaminated clothing, taking care

not to spread the chemical. Seek medical attention if irritation persists.

Eye Contact immediately flush eyes with running water for at least 15 minutes, keeping eye lids open. Take care not to

rinse contaminated water into the non-affected eye. Always seek medical attention for accidents involving the

eyes.

Ingestion Slight ingestion may cause irritation. Flush out mouth with water. Hazardous ingestion Never give anything by

mouth if victim is rapidly losing consciousness or is unconscious convulsing. Rinse mouth thoroughly with water. If breathing has stopped, trained personnel should begin artificial respiration (use protective mask with one -way valve), or if the heart has stopped, cardiopulmonary resusetation (CPR) immediately. Seek medical

attention.

Symptoms/Effects

Acute Adults rarely experience symptoms with one time ingestions of up to 3 mg, but ingestion of larger amounts

can be serious.

Delayed Not available.

Immediate Medical Attention

Overdose treatment includes the following. 1. For recent ingestions, empty the stomach by induced vomiting. Charcoal instillation may be useful up to 3 to 4 hours following ingestion. 2. Administer cardiac glycosides if congestive heart failure develops. 3.

Use appropriate measures to control fever, hypoglycemia, fluid loss. 4. Give ant adrenergic agents such as propranolol for treatment of increased sympathetic activity. 5. Intravenous hydrocortisone can be used to partially inhibit conversion of T4 to T3.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Water spray, dry chemical, carbon dioxide, or foam as appropriate for surrounding fire and materials.

Unsuitable Extinguishing Media

Not available.

Products of Combustion

The product is combustible. Fire degradation products these products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2), halogenated compounds. Flammability emits toxic fames under fire conditions

Firefighters Special Equipment and Precautions

As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

Section 6: Accidental Release Measures

Small spill and leak Vacuum or sweep up spillage. Avoid dust. Place spillage in appropriate labeled solid pharmaceutical waste class 261N container for waste disposal. Wash contaminated clothing before reuse. Ventilate area and wash spill site. Follow appropriate safe work practice. Large spill and leak Use a shovel put the material into a appropriate labeled waste disposal container. Finish cleaning by spreading water on the contaminated surface. Label and dispose as pharmaceutical waste class 261N. Follow appropriate safe work practices. Protective clothing in case of large spill Hooded full suit - Tyvek coveralls or equivalent air purifying

Section 7: Handling and Storage

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Precautions Use with adequate dust control. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid inhalation, skin and eye contact. Wash thoroughly after handling. Dispose as pharmaceutical waste 26 IN. Incompatibility strong oxidizing agents, strong acids. Packaging and Storage condition: Material shall be packed in transparent LDPE bag with nitrogen purging, and tied with nylon strip followed by black LDPE bag along with silica gel desiccant and tied with nylon strip followed by triple laminated bag along with O-buster and hot seal and followed by FIDPE container. Preserve in tight containers, store at 2-8°C (As per USP monograph). In an air tight container. Protected from light, at a temperature between 2-8°C (As per Ph. Eur. monograph).

Section 8: Exposure Controls/Personal Protection

Exposure Limits Engineering Controls

Not available.

Exposure to This material can be controlled in many ways. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. This general information can be used to help develop specific control measures. Ensure that control systems are properly designed and maintained. Comply with occupational, environmental, fire and other applicable regulations. Engineering methods to control hazardous conditions are preferred. Methods include mechanical (local exhaust) ventilation, process or personnel enclosure and control of process conditions. Administrative controls and personnel enclosure and control of process conditions. Administrative controls and personnel protective equipment may also be required. Supply sufficient replacement air to make up for air removed by exhaust system.

Personal Protection

Personal protection Splash goggles. Full suit with hood, or disposable/washable cover all. Half face piece Air purifying respirator with particulate cartridge Pl00 (HEPA) (Less than 1g.) Powdered air purifying respirator (PAPR) with particulate cartridge PI 00 (HEPA) (greater than 1g). Boots rubber gloves (impervious). Chemical fume hood. Personal protective equipment: If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment, including approved respiratory protection. Have appropriate equipment available for use in emergencies such as spills or fire. If respiratory protection is required, institute a complete respiratory protection program, including selection, fit testing, training, maintenance and inspection, Refer to the CSA standard Z94, 4-M1982," selection care and use of respirators," available from the Canadian standards association, Rexadale, Ontario, M9W IR3, or equivalent local codes and standards. Respiratory protection guidelines: Where barrier technology or a. high degree of process contaminant exists, respiratory protection may not be required. When working with quantities less than 1 kg and in the absence of appropriate local exhaust ventilation (LEV) or other containment, a half face piece Air purifying respirator with particulate cartridge PI 00 (HEPA) and goggles is adequate. When working with quantities greater than 1 kg and in the absence of local exhaust ventilation (LEV) or other containment, a powdered Air purifying respirator (PAPR) with particulate cartridge PI00 (HEPA) and helmet/hooder supplied air respirator is recommended. The specific respirator selected must be based on contamination levels found in the work place, the specific operation and not exceed the working limits of the respirator. When performing cleaning activities refer to appropriate cleaning solution MSDS. NOTE: barrier technology utilizes physical containment facilities and methods to prevent human contact with a chemical or biological material with hazardous properties. Examples include glove boxes, flexible isolators, robotics or remote operation. EYE/FACE PROTECTION: Safety goggles SKIN PROTECTION: Impervious gloves (eg. Natural or butyl rubber, nitrile, neoprene or PVC). Azico Biophore standards require that all latex gloves should be medical grade hypoallergenic gloves or those who have type 1 hyper sensitive reaction to latex nitrile gloves are recommended. Hooded full impervious suit and boots (eg. Shield 2 or Tyvek brands and/or equivalent resistant protective clothing). Have a safety showei/eye wash fountain readily available the immediate work area. RESISTANCE OF MATERIALS FOR PROTECTIVE CLOTHING: Guidelines: GOOD: natural, butyl or styrene-butadienerubber (SBR), neoprene, nitrile, polyvinyl chloride (PVC), polyurethane, nitrile+PVC, neoprene+SBR, neoprene+natural rubber, SBR/ne oprene NOTE: Resistance of speci

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Section 9: Physical and Chemical Properties

Light tan, odorless, Crystalline powder **Appearance**

Not available. Odor **Odor Threshold** Not available.

Not available. Decomposes **Melting Point** pН **Freezing Point** Not available. **Vapor Pressure** Not applicable. Not available. **Vapor Density** Not available. **Boiling Point/Range** Not available. Not available. **Decomposition temperature Viscosity** Not available. **Evaporation Rate** Not available.

Partition Coefficient:

n-octanol/water

Flash Point

Not available. Not available. Autoignition temperature

Flammability Not available. Flammability or Explosive Limits:

> Not available. Lower

Not available. Upper

Solubility(ies) Very slightly Soluble in cold water Other Loss on Drying: Not more than 4.0%

Section 10: Stability and Reactivity

Not available. Reactivity

Chemical Stability the product is stable

these products are halogenated compounds **Hazardous Polymerization**

Conditions to Avoid Not available.

Strong oxidizing agents, strong acids **Incompatible Materials**

Hazardous Decomposition Products Not available.

Section 11: Toxicological Information

XP3583000 **RTECS**

Acute Toxicity

LD50: Not available. LC50: Not available.

Skin Corrosion/Irritation

Not available.

Serious Eye Damage/Irritation

Not available.

Respiratory or Skin Sensitization

Not available.

Germ Cell Mutagenicity

Not available.

Carcinogenicity

Not listed.

Reproductive Toxicity

Not available.

Routes of Entry

Eye contact. Ingestion.

Symptoms Related to Exposure

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Behavior (headache, coma) Cardiac (change in rate). Possible eye, skin, gastrointestinal and/or respiratory tract irritation. Effects from overdose can be delayed for several days and may include changes in appetite, changes in menstrual periods, sensitivity' to heat, weight loss, palpitations, rapid and irregular pulse, headache, dizziness hand tremors nervousness or irritability, insomnia, delirium, leg cramps, shortness of breath, chest pain, sweating, high fever, vomiting, diarrhea, seizures, collapse and coma.

Potential Health Effects

Possible allergic reaction to material of inhaled, ingested or in contact with skin.

Target Organ(s)

Not available.

Section 12: Ecological Information

Ecotoxicity

Not available.

Persistance and Degradability

possibly hazardous short term degradation product are not likely, however, long term degradation products may arise.

Bioaccumulative Potential

degradation are as toxicas the product itself.

Mobility in Soil

Not available.

Other Adverse Effects

Not available.

Section 13: Disposal Considerations

Waste Disposal

Collect in sealed containers and place in appropriate labeled pharmaceuticals solid waste class 26IN container according to internal and external standards and procedures. Follow all appropriate safe work, procedures and federal, provincial and local regulations for disposal. Use only licensed disposal and waste hauling companies.

Disposal of Container

Not available.

Other Considerations

Not available.

Section 14: Transport Information

DOT Classification

Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

Section 15: Regulatory Information

Regulations

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD INDEX: NFPA-HEALTH-blue; 1 -slightly hazardous to health NFPA-FLAMMABILITY-red: 1-materails that must be preheated before ignition can occur NFPA-REACTIVITY-yellow: 0-normally stable

Other

WHMIS CLASS D-2B: Material causing other toxic (Canada) effects (TOXIC).;DSCL (EEC) R37/38- Irritating to respiratory system and skin. R41- Risk of serious damage to eyes.;Gloves.;Lab coat.;Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.;Splash goggles.

Section 16: Other Information

Not available.

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