



**MATERIAL SAFETY DATA SHEET**

While we believe the information provided herein is accurate and current, JHP Pharmaceuticals makes no representation or warranties, either explained or implied, and assume no responsibility for any damage or injuries of any kind, which may result from use or reliance upon this information

**SECTION 1 MATERIAL IDENTIFICATION**

**PRODUCT NAME:** Triostat<sup>®</sup> (liothyronine sodium Injection) **DATE OF ISSUE:** 5/5/08

**FORMULA:** Solution **SUPERCEDES:** NA **REVISION:** 1.0

**NDC #:** 42023-120-06 Triostat<sup>®</sup> (liothyronine sodium injection), 10mcg/mL, 1mL SDV  
**SYNONYMS:** Liothyronine Sodium

**MANUFACTURING DIVISION:** JHP Pharmaceuticals, LLC. **ADDRESS:** 870 Parkdale Road Rochester, MI 48307 **PHONE :** Emergency: 248-656-5400 Medical Affairs: 866-923-2474

**SECTION 2 INGREDIENT (S)**

**CAS #:** 55-06-1 **INGREDIENT NAME:** Liothyronine Sodium

**EXPOSURE LIMITS/ GUIDELINES:** No occupational exposure limits established.  
**OSHA PEL:** NA  
**ACGIH TLV:** NA  
**OTHER:** NA  
**LISTED AS CARCINOGEN:** No

**SECTION 3 HAZARD IDENTIFICATION**

**MAJOR HEALTH HAZARD:** Central nervous system stimulation

**POTENTIAL HEALTH EFFECTS:**

**INHALATION:**  
**SHORT TERM EXPOSURE:** Irritation, allergic reactions  
**LONG TERM EXPOSURE:** Allergic reactions

**SKIN CONTACT:**  
**SHORT TERM EXPOSURE:** Irritation, allergic reactions  
**LONG TERM EXPOSURE:** No information available.

**SECTION 3****HAZARD IDENTIFICATION cont.****EYE CONTACT:****SHORT TERM EXPOSURE:** Irritation**LONG TERM EXPOSURE:** No information is available.**INGESTION:****SHORT TERM EXPOSURE:** Gastrointestinal irritation, sensitivity to heat, fever, vomiting, diarrhea, dizziness, weight loss, chest pain, irregular heart beat, headache, sleep disturbance, tremors, menstrual disorders, heart disorders.**LONG TERM EXPOSURE:** No information available.**SECTION 4****FIRST AID INFORMATION****EYES:** Flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.**SKIN:** Wash exposed skin with soap and water for at least 15 minutes while removing contaminated clothes and shoes. Get medical attention if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.**INHALATION:** If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.**INGESTION:** If large amount is swallowed, get medical attention.**NOTE TO PHYSICIAN:** For inhalation, consider oxygen.**SECTION 5****FIRE AND EXPLOSION DATA****FLASH POINT:** ND**EXTINGUISHING MEDIA:** Carbon dioxide, regular dry chemical, regular foam, water.**SPECIAL FIRE PROCEDURES:** Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.**HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS:** Thermal decomposition products or combustion: oxides of carbon, oxides of nitrogen, oxides of sulfur, iodine, chlorine.**FIRE HAZARDS:** Slight**EXPLOSION HAZARDS:** Slight**SECTION 6****ACCIDENTAL RELEASE MEASURES****ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:**

Stop leak if possible without personal risk. Small Spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

**SECTION 7****HANDLING AND STORAGE**

**STORAGE:** Store and handle in accordance with all current regulations and standards. Store between 2°C and 8°C. See original container for storage recommendations. Keep separated from incompatible substances.

**SECTION 8****SPECIAL PROTECTION INFORMATION**

**VENTILATION:** Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

**EYE PROTECTION:** Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**CLOTHING:** Wear appropriate chemical resistant clothing.

**GLOVES:** Wear appropriate chemical resistant gloves.

**RESPIRATOR:** Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.

Any chemical cartridge respirator with appropriate organic vapor and particulate filter cartridges(s)

Any chemical cartridge respirator with a full face piece and appropriate organic vapor and particulate filter cartridge(s).

Any air-purifying respirator with a full face piece and appropriate organic vapor and particulate filter canister

**For Unknown Concentrations or Immediately Dangerous to Life or Health-**

Any supplied-air respirator with full face piece and operated in a pressure-demand or other positive –pressure mode in combination with a separate escape supply.

Any self-contained breathing apparatus with a full face piece.

**SECTION 9****PHYSICAL AND CHEMICAL DATA**

**PHYSICAL STATE:** Liquid

**APPEARANCE:** Colorless

**CHARACTERISTIC ODOR:** None

**SPECIFIC GRAVITY (water = 1) = NA**

**SOLUBILITY:**

**pH: NA**

**WATER: NA**

**SECTION 10****STABILITY AND REACTIVITY**

**REACTIVITY:** Stable at normal temperature and pressure

**CONDITIONS TO AVOID:** Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

**INCOMPATIBLES:** Oxidizing materials.

**POLYMERIZATION:** Will not polymerize.

**SECTION 11****TOXICOLOGY****TOXICITY INFORMATION:**

The following information pertains to the ingredient(s) individually and not to the product as marked. Included will be any data which emphasize the potential effects that may occur with the occupational handling (by inhalation or by dermal or by ocular contact) of this product.

**TRIOSTAT ®**

**Additional data:** This substance is a synthetic version of a hormone produced by the thyroid gland and as such is involved in the regulation of metabolism. Therapeutic use will increase basal metabolism, including increased consumption of oxygen and increased metabolism of fats, proteins and carbohydrates.

**LIOTYRONINE SODIUM**

**Target Organs:** Central nervous system.

**Additional data:** Interactions with drugs may occur.

(Refer to package insert for further information)

**SECTION 12****ECOLOGICAL INFORMATION**

Not available

**SECTION 13****DISPOSAL**

Dispose in accordance with all applicable regulations.

**SECTION 14****TRANSPORTATION****SHIPPING REQUIREMENTS AND LIMITATIONS**

**PROPER SHIPPING NAME:** NA      **ID/UN NUMBER:** NA      **CONTAINER SPECIFICATION:** NA

**HAZARD CLASS:** NA      **LABEL:** NA      **PACKAGING GROUP:** NA

**SHIPPING LIMITATIONS:** NA      **MARKING:** NA      **OTHER COMMENTS:** NA

**U.S REGULATIONS:****CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):** Not regulated.**SARA TITLE III SECTIONS 302/304 EXTREMELY HAZARDOUS SUBSTANCES:** Not regulated.**SARA TITLE III SECTIONS 311/312 HAZARDOUS CATEGORIES:** Not regulated.

ACUTE: Yes

CHRONIC: No

FIRE: No

REACTIVE: No

SUDDEN RELEASE: No

**SARA TITLE II SECTION 313:** Not regulated.**OSHA PROCESS SAFETY:** Not regulated.**STATE REGULATIONS:****California Proposition 65:** Not regulated**NATIONAL INVENTORY STATUS:****U.S. INVENTORY (TSCA):** This product is exempt.**TSCA 12(b) EXPORT NOTIFICATION:** Not listed.

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**NA – NOT APPLICABLE****ND – NO DATA FOUND**

The information provided in this Material Safety Data Sheet has been compiled from our experience and the data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary. We reserve the right to revise the Material Safety Data Sheets from time to time as new information becomes available. The user has the responsibility to contact the company to make sure the sheet is the latest one issued.