



Humco Holding Group, Inc.  
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24-Hour Emergency Number (CHEMTREC)  
 USA- 800-424-9300

All non-emergency calls should be directed to  
 Customer Service at 800-662-3435

**NAME: LEVOTHYROXINE SODIUM, USP (T4)**

**SDS NO. 8073**

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Levothyroxine Sodium, USP (T4)

**Synonyms:** Levothyroxinum narticum

**Recommended Use:** Active Pharmaceutical Ingredient

**Manufacturer by:** Humco Holding Group, Inc.

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## 2. HAZARD IDENTIFICATION

<b>Pictogram:</b>	A black silhouette of a human figure with a white starburst on the chest, enclosed in a red diamond-shaped border.
<b>Classification:</b>	Reproductive Toxicity (Category 2) Specific Target Organ Toxicity- Repeated Exposure (Category 1)
<b>Signal Word:</b>	Danger
<b>Hazard Statements:</b>	Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.
<b>Precautionary Statements</b>	Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product.

### 3. COMPOSITION / INGREDIENTS

CHEMICAL NAME	CAS#
LEVOTHYROXINE SODIUM, USP (T4)	25416-65-3

### 4. FIRST-AID MEASURES

IN CASE OF EYE CONTACT: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. If irritation persists seek medical aid.

IN CASE OF SKIN CONTACT: Wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. If irritation persists, seek medical aid. Wash contaminated clothing before reusing.

IF SWALLOWED: Rinse out mouth and the drink plenty of water.

IF INHALED: Remove to fresh air. If irritation persists, seek medical aid.

SYMPTOMS AND EFFECTS: No further relevant information available.

### 5. FIRE-FIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: See below (Hazardous Combustion Products).

HAZARDOUS COMBUSTION PRODUCTS: Carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO@...), some metallic oxides.

EXTINGUISHING MEDIA: Small fire: dry chemical powder. Large fire: Water spray, fog or foam. Do not use water jet.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear protective equipment. Keep unprotected persons away. Use respiratory protective devices against the effects of fumes/dust/aerosol. Keep away from ignition sources. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS: Do not allow to enter sewers/surface or ground water.

METHODS & MATERIAL FOR CONTAINMENT AND CLEANING UP: Pick up mechanically.

## 7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: No special precautions are necessary, if used correctly.

STORAGE CONDITIONS: Store in a cool, well ventilated place. Keep container tightly closed. Store locked up.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT:

USAGE: Safety glasses. Lab coat. Dust respirator (F1-rated). Protective gloves that are impermeable to the product.

LARGE SPILLS: Splash goggles, full suit, dust respirator, boots, gloves. SCBA should be used to avoid inhalation of the product.

SPECIFIC ENGINEERING CONTROLS: Adequate mechanical ventilation. Fume hood, eye wash station, and safety shower.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Light yellow/brown powder	<b>Upper/Lower Flammability:</b>	Not available
<b>Odor:</b>	Characteristic	<b>Vapor Pressure</b>	Not applicable
<b>Odor Threshold:</b>	Not available	<b>Vapor Density:</b>	Not available
<b>pH:</b>	~8.9 (1% soln/water)	<b>Relative Density:</b>	Not available
<b>Melting point /Freezing Point:</b>	Not available	<b>Solubilities:</b>	Water- very slightly Alcohol- slightly Alkali Hydroxide Solutions- soluble Hot Alkali Carbonates- soluble Acetone, Chloroform, Ether- insoluble
<b>Boiling point/range:</b>	Not available	<b>Partition coefficient: n-octanol/water:</b>	Not determined
<b>Flash point</b>	Not available	<b>Auto-ignition temperature</b>	Not determined
<b>Evaporation rate</b>	Not available	<b>Decomposition Temperature:</b>	Not determined
<b>Flammability:</b>	Not available	<b>Viscosity</b>	Not applicable

## 10. STABILITY AND REACTIVITY

REACTIVITY: Stable under recommended transport/storage conditions.

STABILITY: Stable under recommended transport/storage conditions.

MATERIALS TO AVOID: Strong acids, alkalis and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen iodide and other gases may occur.

HAZARDOUS POLYMERIZATION: Will not occur.

POSSIBILITY OF HAZARDOUS REACTION: Not available.

CONDITIONS TO AVOID: Heat, light, incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY: Eye contact, ingestion, inhalation.

TOXICITY TO ANIMALS: LD50- >10,000 mg/kg (rat).

LC50- Not available.

CHRONIC EFFECTS ON HUMANS: May cause adverse reproductive effects (Maternal effects on fertility, fetotoxicity) and birth defects, based on animal data.

OTHER TOXIC EFFECTS ON HUMANS: Skin- May cause skin irritation.

Eyes- May cause eye irritation by mechanical action.

Inhalation- May cause respiratory tract irritation.

Ingestion- May cause digestive tract irritation. May affect metabolism, thyroid, urinary system, behavior (excitement, headache, coma), cardiovascular system (increased pulse rate).

## 12. ECOLOGICAL INFORMATION

<b>Acute or chronic aquatic toxicity:</b>	Avoid release into the environment.
<b>Chemical degradation:</b>	Not determined.
<b>Biodegradation:</b>	Short term degradation products are not likely. Long term degradation products may arise. The product itself and its products of degradation are not toxic.
<b>Bioaccumulation potential</b>	Not available.
<b>Adsorption studies or leaching studies:</b>	Not available.
<b>Other adverse effects</b>	Not available.

## 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with federal, state and local laws and regulations. Avoid release into environment.

**14. TRANSPORT INFORMATION**

<b>DOT Hazard Classification:</b>	Not applicable
<b>UN number:</b>	Not applicable
<b>UN proper shipping name:</b>	Not applicable
<b>Transport hazard class(es):</b>	Not applicable
<b>Packing group number:</b>	Not applicable
<b>Environmental hazards:</b>	Not applicable
<b>Special precautions:</b>	Not applicable

**15. REGULATORY INFORMATION**

Not determined.

**16. OTHER INFORMATION**

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