



# Material Safety Data Sheet

8810 Commodity Cir #20  
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## ISOPROPYL PALMITATE

Revision Date: November 14, 2005

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Common Name: Isopropyl Palmitate

Manufacturer: U. S. Pharmacopeia

Responsible Party: Reference Standards Technical Services

Mailing Address: 8810 Commodity Cir #20  
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Hours: 8 a.m. to 5 p.m. EST Mon. - Fri.

Product Use: USP Reference Standards and Authentic Substances are used for chemical tests and assays in analytical, clinical, pharmaceutical, and research laboratories.

### SECTION 2 - HAZARD INFORMATION

#### EMERGENCY OVERVIEW - Irritant.

Adverse Effects: Possible allergic reaction to material if inhaled, ingested, or in contact with skin.

Overdose Effects: n/f

Acute: Possible eye, skin, gastrointestinal, and/or respiratory tract irritation.

Chronic: Possible hypersensitization.

Medical Conditions Aggravated by Exposure: Hypersensitivity to material.

Cross Sensitivity: n/f

Target Organs: n/f

For additional information on toxicity, see Section 11.

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Common Name: Isopropyl Palmitate

Formula: C19H38O2

Synonym: IPP

Chemical Name: Hexadecanoic acid, 1-methylethyl ester

CAS: 142-91-6

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**Chemical Family:** Linear aliphatic derivative

**Therapeutic Category:** Pharmaceutical aid (vehicle, oleaginous)

**Composition:** Pure Material

## SECTION 4 - FIRST AID MEASURES

**Inhalation:** May cause irritation. Remove to fresh air.

**Eye:** May cause irritation. Flush with copious quantities of water.

**Skin:** Causes mild irritation and may be absorbed through the skin. Avoid contact. Flush with copious quantities of soap and water.

**Ingestion:** May cause irritation. Flush out mouth with water.

**General First Aid Procedures:** Remove from exposure. Remove contaminated clothing. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.

### Note to Physicians

**Overdose Treatment:** For current information about the treatment of overdose, consult a certified Regional Poison Control Center by calling the number listed in your local telephone directory.

## SECTION 5 - FIREFIGHTING MEASURES

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

**Fire and Explosion Hazards:** This material is combustible.

**Firefighting Procedures:** 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

**Spill Response:** Wear approved respiratory protection, chemically compatible gloves, and protective clothing. Wipe up spillage or collect spillage using a high-efficiency vacuum cleaner. Avoid breathing vapor. Ventilate area and wash spill site. Place spillage in appropriately labeled container for disposal.

## SECTION 7 - HANDLING AND STORAGE

**Handling:** As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Wash thoroughly after handling.

**Storage:** Store in tight, light-resistant container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

## SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

**Engineering Controls:** Engineering controls such as exhaust ventilation are recommended.

**Respiratory Protection:** Use a NIOSH-approved respirator, if it is determined to be necessary by an industrial hygiene survey involving air monitoring. In the event that a respirator is not required, an approved dust mask should be used.

**Gloves:** Chemically compatible

**Eye Protection:** Safety glasses or goggles

**Protective Clothing:** Protect exposed skin.

**Exposure Limits:** n/f

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Properties as indicated on the MSDS are general and not necessarily specific to the USP Reference Standard Lot provided.

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**Appearance and Odor:** Clear, colorless, oily liquid; slight bland odor.

**Odor Threshold:** n/f

**pH:** 6.5 -7.5

**Melting Range:** 13 - 14° C

**Boiling Point:** 160° C @ 2 mm Hg

**Flash Point:** 178° C (COC)

**Autoignition Temperature:** n/f

**Evaporation Rate:** n/f

**Upper Flammability Limit:** n/f

**Lower Flammability Limit:** n/f

**Vapor Pressure:**  $5.59 \times 10^{-5}$  mm Hg @ 25° C

**Vapor Density:** n/f

**Specific Gravity:** 0.85

**Solubility in Water:** Insoluble

**Fat Solubility:** n/f

**Other Solubility:** Insoluble in glycerol and in propylene glycol; soluble in alcohol, in acetone, in castor oil, in chloroform, in cottonseed oil, in ethyl acetate, and in mineral oil.

**Partition Coefficient: n-octanol/water:** n/f

**Percent Volatile:** n/f

**Reactivity in Water:** n/f

**Explosive Properties:** n/f

**Oxidizing Properties:** n/f

**Formula:** C<sub>19</sub>H<sub>38</sub>O<sub>2</sub>

**Molecular Weight:** 298.5

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## SECTION 10 - STABILITY AND REACTIVITY

**Conditions to Avoid:** Avoid exposure to light.

**Incompatibilities:** Strong oxidizing agents, nitrates, and concentrated acids.

**Decomposition Products:** When heated to decomposition, material emits acrid smoke and fumes. Emits toxic fumes under fire conditions.

**Stable?** Yes      **Hazardous Polymerization?** No

## SECTION 11 - TOXICOLOGICAL PROPERTIES

**Oral Rat:** LD50: >5 grams/kg

**Oral Mouse:** LD50: n/f

**Other Toxicity Data:** Skin Rabbit LD50: >5 grams/kg

**Irritancy Data:** [RTECS] - Human/Skin: mild; Rabbit/Skin: moderate

**Corrosivity:** n/f

**Sensitization Data:** n/f

**Listed as a Carcinogen by:**      **NTP:** No      **IARC:** No      **OSHA:** No

**Other Carcinogenicity Data:** No

**Mutagenicity Data:** n/f

**Reproductive and Developmental Effects:** n/f

## SECTION 12 - ECOLOGICAL INFORMATION

**Ecological Information:** n/f

## SECTION 13 - DISPOSAL CONSIDERATIONS

**Disposal:** Dispose of waste in accordance with all applicable Federal, State, and local laws.

## SECTION 14 - TRANSPORT INFORMATION

**Shipping Name:** n/f

**Class:** n/f

**UN Number:** n/f

**Packing Group:** n/f

**Additional Transport Information:** n/f

## SECTION 15 - REGULATORY INFORMATION

**U.S. Regulatory Information:** n/f

**International Regulatory Information:** EINECS#: 205-571-1

## SECTION 16 - OTHER INFORMATION

**Revision:**                      14-Nov-05

**Previous Revision Date:**                      24-Jan-02