

# **Safety Data Sheet**

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

# Section 1: Identification

Product Name Propranolol Hydrochloride USP

Commercial Name Not available.

Product Use Active Pharmaceutical Ingredient

Restrictions On Use Not available.

Product Code 55-1606

**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 4

CFR 1910.1200

Signal Word WARNING

Hazard Statement(s) Harmful if swallowed.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read and

understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe

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

dust. Wash thoroughly after handling

Response If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If exposed: Call a poison

center/doctor. If exposed or concerned: Get medical advice/attention.

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 Propranolol Hydrochloride USP

 % By Weight
 100

 CAS#
 318-98-9

 Molecular Weight
 295.81 g/mole

 Chemical Formula
 C16H21NO2.HCI

Synonym(s) 1-[(1-Methylethyl)amino]-3-(1-naph haleneoxy)-2-propanol hydrochlori

**Mixtures** 

NameCAS#% by WeightTLV/PELLC50/LD50Propranolol Hydrochloride USP318-98-9100Not Available.Not Available.

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### Section 4: First-Aid Measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a

physician if symptoms develop or persist.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin Contact

Rinse with water. Get medical attention if irritation develops and persists. **Eye Contact** 

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately. Do not

induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach

content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

Symptoms/Effects

Acute Cardiovascular effects. Pharmacologically active material. Occupational exposure may cause physiological

Delayed Cardiovascular effects. Pharmacologically active material. Occupational exposure may cause physiological

### **Immediate Medical Attention**

Treat symptomatically. For beta-adrenergic blockers: Treatment may include the following: Do NOT induce vomiting. Administer activated charcoal as a slurry and perform gastric lavage to decrease absorption. Gastric lavage may increase vagal tone. Maintain an open airway and assist ventilation if necessary. Perform an early echocardiographic evaluation. For mild hypotension, administer IV fluids. If severe, administer IV glucagon, calcium, or catecholamines (dopamine, norepinephrine, epinephrine). Concurrent high-dose insulin euglycemia therapy may allow for a decrease in the dose of catecholamine. For bradycardia, administer IV atropine, glucagon, and isoproterenol. Cardiac pacing may also be needed. Sodium bicarbonate may be helpful for dysrhythmias and conduction defects. For bronchospasm, administer nebulized bronchodilators. Systemic corticosteroids may also be beneficial. For seizures, administer a benzodiazepine (diazepam or lorazepam) intravenously. Muscle relaxants and artificial ventilation may also be required. For hypoglycemia, administer glucose or glucagon.

# Section 5: Fire-Fighting Measures

# Suitable Extinguishing Media

Water. Foam. Dry chemical or CO2. Use fire-extinguishing media appropriate for surrounding materials

### **Unsuitable Extinguishing Media**

Not available.

### **Products of Combustion**

No unusual fire or explosion hazards noted.

#### **Firefighters Special Equipment and Precautions**

Wear suitable protective equipment. Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing. Use standard firefighting procedures and consider the hazards of other involved materials.

## Section 6: Accidental Release Measures

Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS. Methods and materials for containment and cleaning up: For waste disposal, see section 13 of the SDS. Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

## 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. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential. Storage: Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

# Section 8: Exposure Controls/Personal Protection

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Exposure Limits
Engineering Controls

TWA 10 micrograms/m3

**Personal Protection** 

For laboratory operations, use local exhaust ventilation or a ventilated enclosure for high energy operations such as particle sizing. Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred. Eye/face protection: Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available. Skin protection Hand protection: Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent. Other: Train employees in proper gowning and degowning practices. Wear lab coat. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors. Respiratory protection: Respirators are generally not required for laboratory operations. Use a tight-fitting full-face respirator with HEPA filters for spill cleanup. Chose respiratory protection appropriate to the task and the level of existing engineering controls. Thermal hazards: Wear appropriate thermal protective clothing, when necessary. General hygiene considerations: Handling practices in this SDS are recommendations for laboratory use of reference standards. Procedures for any other uses or quantities should be determined after an appropriate assessment.

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Not available.



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# Section 9: Physical and Chemical Properties

White. Off-white. Crystalline powdersolid. (Solid powder.) **Appearance** 

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

323.6 - 330.8 °F (162 - 166 ° **Melting Point** pН

Freezing Point Not available. Vapor Pressure < 0.0000001 kPa at 25 °C

Not available Not available. **Boiling Point/Range** Vapor Density Not available. Not available. **Decomposition temperature** Viscosity **Partition Coefficient:** -0.45**Evaporation Rate** Not available.

n-octanol/water

Not available Not available. Flash Point Autoignition temperature

**Flammability** Not available. Flammability or Explosive Limits:

> Not available. Lower

Not available. Upper

Solubility(ies) Soluble in water.

Other Benzene: Practically insoluble. Chloroform: Slightly soluble. Ethanol: Soluble. Ether: Practically

insoluble. Ethyl acetate: Practically insoluble. Chemical family Propylamine derivative. Molecular

formula C16H21NO2.HCl Molecular weight 295.8

Section 10: Stability and Reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and

transport

Material is stable under normal conditions. **Chemical Stability** 

No dangerous reaction known under conditions of normal use. **Hazardous Polymerization** 

**Conditions to Avoid** Contact with incompatible materials

Alkaline solutions. Strong oxidizing agents. Strong acids Incompatible Materials

NOx. Cl-. Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. **Hazardous Decomposition Products** 

# Section 11: Toxicological Information

UB7526000 **RTECS** 

**Acute Toxicity** 

Harmful if swallowed. Oral LD50: Mouse 320 mg/kg Rat 466 mg/kg

Skin Corrosion/Irritation

Not available

Serious Eye Damage/Irritation

Not available

Respiratory or Skin Sensitization

Not available.

**Germ Cell Mutagenicity** 

Not available.

Carcinogenicity

Not available.

# Reproductive Toxicity

Suspected of damaging fertility or the unborn child. Some beta-adrenergic blocking agents have been reported to cause fetal and neonatal bradycardia, hypotension, and hypoglycemia when administered during pregnancy, and may also be associated with fetal growth retardation.

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# **Routes of Entry**

Ingestion.

### Symptoms Related to Exposure

Beta-adrenergic blockers: Gastrointestinal disturbances. Headache. Mood or mental changes. Drowsiness. Weakness. Insomnia. Nervousness. Visual disturbances. Swelling of feet or legs. Muscle, joint, or chest paint. Seizures. Coma. Cardiovascular effects. Respiratory depression.

#### **Potential Health Effects**

Pharmacologically active material. Occupational exposure may cause physiological effects.

Causes damage to organs (cardiovascular system) Target Organ(s)

# Section 12: Ecological Information

### **Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### Persistance and Degradability

Not available.

### **Bioaccumulative Potential**

Octanol/water partition coefficient log Kow -0.45

# **Mobility in Soil**

Not available.

### Other Adverse Effects

Not available.

# Section 13: Disposal Considerations

#### Waste Disposal

Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

# **Disposal of Container**

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

# 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

US federal regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200 TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated. Superfund Amendments and Reauthorization Act of 1986 (SARA) Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Hazard categories SARA 302 Extremely hazardous substance Not listed. YesSARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Not regulated. Safe Drinking Water Act (SDWA) California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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Other

Not avialable.

# Section 16: Other Information

Not available.

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