

**Order  
Number**
**Customer  
Number**
**1. Identification of the substance/preparation and of the company/undertaking**

**Product name** : Haloperidol **Catalog #** : 371980  
**Supplier** : Manufactured by EMD Biosciences, Inc.  
 10394 Pacific Center Court  
 San Diego, CA 92121  
 (858)450-5558/(800)854-3417  
 FAX: (858)453-3552  
**Chemical formula** : C<sub>21</sub>H<sub>23</sub>ClFNO<sub>2</sub>  
**Synonym** : Not available.

**Emergency telephone number** : **Call Chemtrec®**  
**(800)424-9300 (within U.S.A.)**  
**(703)527-3887 (outside U.S.A.)**

**2. Composition / information on ingredients**

**Substance/Preparation** : Substance

Chemical name*	CAS No.	EC Number	Symbol	R-Phrases
1) Haloperidol	52-86-8	200-155-6	T	R25, R36/37/38, R43, R60, R61

**3. Hazards identification**

**Physical/chemical hazards** : Not applicable.  
**Human health hazards** : WARNING!  
 BIRTH DEFECT HAZARD.  
 CAN CAUSE BIRTH DEFECTS.  
 HARMFUL IF SWALLOWED.  
 MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.  
 MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION.  
 MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: BLOOD, REPRODUCTIVE SYSTEM, LIVER, HEART, CARDIOVASCULAR SYSTEM, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA.

**4. First-aid measures**
**First-Aid measures**

- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.  
**Ingestion** : If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.  
**Skin Contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.  
**Eye Contact** : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Effects and symptoms**

- Inhalation** : Hazardous in case of inhalation (lung irritant, lung sensitizer).  
**Ingestion** : Very hazardous in case of ingestion. May be fatal if swallowed.  
**Skin Contact** : Hazardous in case of skin contact (irritant, sensitizer). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.  
**Eye Contact** : Hazardous in case of eye contact (irritant).  
**Aggravating conditions** : Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

## 5. Fire-fighting measures

- Flammability of the Product** : May be combustible at high temperature.
- Extinguishing Media**
- Suitable** : SMALL FIRE: Use DRY chemical powder.  
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
- Hazardous thermal (de)composition products** : These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...), halogenated compounds.
- Special fire-fighting procedures** : Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
- Protection of fire-fighters** : Be sure to use an approved/certified respirator or equivalent.

## 6. Accidental release measures

- Personal precautions** : Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
- Small Spill and Leak** : Use appropriate tools to put the spilled solid in a convenient waste disposal container.
- Large Spill and Leak** : Poisonous solid.  
Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.

## 7. Handling and storage

- Handling** : Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 4°C (39.2°F).
- Packaging materials**
- Recommended use** : Use original container.

## 8. Exposure controls/personal protection

- Engineering measures** : Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
- Hygiene measures** : Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

<u>Ingredient Name</u>	<u>Occupational Exposure Limits</u>
1) Haloperidol	Not available.

### Personal protective equipment

- Respiratory system** : Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
- Skin and body** : Lab coat.
- Hands** : Gloves.
- Eyes** : Splash goggles.

**Protective Clothing (Pictograms)**



## 9. Physical and chemical properties

- Physical state** : Solid.
- Color** : White.
- Molecular Weight** : 375.9 g/mole
- Melting Point** : 148 to 150°C (298.4 to 302°F)
- Solubility** : Not available.
- Flash point** : Not available.
- Explosive properties** : Risks of explosion of the product in presence of mechanical impact: Not available.  
Risks of explosion of the product in presence of static discharge: Not available.

## 10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to avoid** : Not available.
- Materials to avoid** : Reactive with oxidizing agents.
- Hazardous Decomposition Products** : These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...), halogenated compounds.

## 11. Toxicological information

**RTECS #** : **EU1575000**

### Local effects

- Skin irritation** : Hazardous in case of skin contact (irritant).
- Sensitization** : Hazardous in case of skin contact (sensitizer), of inhalation (lung sensitizer).

**Acute toxicity** : LD50: Not available.  
LC50: Not available.

**Chronic toxicity** : Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

**Other Toxic Effects on Humans** : Toxic for humans or animal life.  
Very hazardous in case of ingestion  
Hazardous in case of skin contact (irritant, sensitizer), of inhalation (lung irritant, lung sensitizer).  
May cause congenital malformations in the foetus.

Material is irritating to mucous membranes and upper respiratory tract.

### Specific effects

- Carcinogenic effects** : Not available.
- Mutagenic effects** : Not available.
- Reproduction toxicity** : Classified Reproductive system/toxin/female [PROVEN].
- Teratogenic effects** : Classified POSSIBLE for human.

## 12. Ecological information

- Ecotoxicity** : Not available.
- Toxicity of the Products of Biodegradation** : The products of degradation are as toxic as the product itself.

## 13. Disposal considerations

**Methods of disposal; Waste of residues; Contaminated packaging** : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## 14. Transport information

### International transport regulations

**UN number** : UN2811


### Land - Road/Railway

- Proper shipping name** : Toxic solid, organic, n.o.s.\*
- ADR/RID Class** : CLASS 6.1: Toxic substance.
- Packing Group** : III
- ADR/RID label** :



### Sea

- Proper shipping name** : Toxic solid, organic, n.o.s.\*
- IMDG Class** : CLASS 6.1: Toxic substance.
- Packing Group** : III

IMDG label : 

Air  
Proper shipping name : Toxic solid, organic, n.o.s.\*  
UN/ID Number : UN2811  
IATA-DGR Class : CLASS 6.1: Toxic substance.  
IATA label :



Special Provisions for Transport : Not available.

## 15. Regulatory information

### EU Regulations

Hazard symbol(s) : 

Classification : Toxic  
Risk Phrases : R25- Toxic if swallowed.  
R36/37/38- Irritating to eyes, respiratory system and skin.  
R43- May cause sensitization by skin contact.  
R60- May impair fertility.  
R61- May cause harm to the unborn child.

Safety Phrases : S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

Contains : - Haloperidol

### U.S. Federal Regulations

: TSCA: No products were found.  
SARA 302/304/311/312 extremely hazardous substances: No products were found.  
SARA 302/304 emergency planning and notification: No products were found.  
SARA 302/304/311/312 hazardous chemicals: No products were found.  
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.  
SARA 313 toxic chemical notification and release reporting: No products were found.  
Clean Water Act (CWA) 307: No products were found.  
Clean Water Act (CWA) 311: No products were found.  
Clean air act (CAA) 112 accidental release prevention: No products were found.  
Clean air act (CAA) 112 regulated flammable substances: No products were found.  
Clean air act (CAA) 112 regulated toxic substances: No products were found.

HCS Classification : CLASS: Toxic.  
CLASS: Irritating substance.  
CLASS: Target organ effects.

State Regulations : California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Haloperidol  
California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Haloperidol

WHMIS (Canada) : CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).  
CLASS D-2A: Material causing other toxic effects (VERY TOXIC).  
No products were found.

## 16. Other information

### Hazardous Material Information System (U.S.A.)

Health	*	3
Fire Hazard		1
Reactivity		0
Personal Protection		E

### National Fire Protection Association (U.S.A.)



### Notice to Reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

**Date of issue**

**Catalog #** 371980

3/5/2003.

**Page: 5/5**