

# Safety Data Sheet

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## 1. Identification of the substance/preparation and the company/undertaking

### GHS product identifier

Product name: Haloperidol Oral Solution USP (Concentrate)

### Other mean of identification

Product code(s): 0121-0581-04, 0121-0581-05

UN-Number: NA

Synonyms: Compare to Haldol®

### Recommended use of the chemical and restrictions on use

Recommended use: Pharmaceutical product used as antipsychotic

Uses advised against: Do not use except as prescribed.

### Supplier address/information

Pharmaceutical Associates, Inc.  
201 Delaware Street  
Greenville, SC 29605 (864) 277 -7282

Emergency telephone number: CHEMTREC 800.424.9300

## 2. Hazards Identification

### Classification

This product is a mixture and is a pharmaceutical product. It is considered non-Hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

### Chemical family:

Mixture

### Statement of Hazard:

May be harmful if swallowed.

May damage the unborn child.

May cause nervous system, cardiovascular system and reproductive effects.

### Additional Hazard Information

#### Short term:

Overdose: Seizure and/or coma may occur.

#### Long term:

Animal studies have shown a potential to cause adverse effects of the fetus. Repeat-dose studies in animals have shown a potential to cause adverse effects on reproductive system. Can cause effects on central nervous system, gastrointestinal, cardiovascular system and respiratory system.

### Known Clinical Effects:

Therapeutic use of this substance has resulted in weakness, dizziness, drowsiness, ataxia, confusion, tremors, headache, and gastrointestinal disturbances. As with all antipsychotic agents, tardive dyskinesia may appear. This syndrome is characterized by rhythmical involuntary movements of the tongue, face, mouth or jaw. Higher doses may cause CNS stimulation and/or depression, and impairment of motor and cognitive skills.

### EU Indication of danger:

Not classified.

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## Emergency overview

Seek medical attention in case of accidental exposure or overdose. The product is generally safe when used as prescribed.

Note: This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the active substance or its intermediates regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential of exposure in your workplace.

## Precautionary statements

General advice: Seek medical attention in case of accidental exposure or overdose.

Eyes: Avoid contact with eyes.

Skin Contact: Avoid skin contact.

Inhalation: Not intended for inhalation.

Ingestion: Generally safe at recommended doses. In case of overdose, seek medical attention immediately.

Storage: There are no special storage conditions for safety. For product integrity, store under conditions specified on the label.

Disposal: Dispose of in accordance with applicable laws and regulations.

## 3. Composition/Information on ingredients

Chemical name	CAS-No	mg/mL	Trade Secret
Haloperidol	52-86-8	2 mg/mL	
Propylene Glycol	57-55-6		X
Methylparaben	99-76-3		X
Propylparaben	94-13-3		X
Lactic Acid	50-21-5		X

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## 4. First aid measures

### Description of necessary first-aid measures

#### Eye contact:

Flush with running water for 15 minutes holding eyelids open. Contact medical personnel.

#### Skin contact:

Wash contaminated area thoroughly. If irritation persists, contact medical personnel.

#### Inhalation:

Remove to fresh air and contact medical personnel.

#### Ingestion:

Overdosage or accidental ingestion – Do not induce vomiting. Contact medical personnel or poison control center.

### Most important symptoms/effects, acute and delayed

Therapeutic use of this substance has resulted in weakness, dizziness, drowsiness, ataxia, confusion, tremors, headache, and gastrointestinal disturbances. As with all antipsychotic agents, tardive dyskinesia may appear. This syndrome is characterized by rhythmical involuntary movements of the tongue, face, mouth or jaw. Higher doses may cause CNS stimulation and /or depression, and impairment of motor and cognitive skills.

### Indication of immediate medical attention and special treatment needed, if necessary

NA

Notes to Physician: NA

## 5. Fire-fighting measures

### Suitable extinguishing media:

Use carbon dioxide, dry chemical or water spray.

### Specific hazards arising from the chemical

May burn emitting oxides of chlorine and nitrogen.

### Explosion data:

Not applicable

### Protective equipment and precautions for firefighters

During all firefighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (See Section 8). Minimize exposure.

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## Environmental precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

## Methods and materials for containment and cleaning up

- Methods for containment:
- Methods for cleaning up:

Isolate area around spill as specified by site procedures. Absorb the liquid with suitable material. Dispose of spill material in accordance with applicable federal, state or local regulations.

## 7. Handling and storage

### Precautions for safe handling

Handling:

No special handling required for hazard control under conditions of normal product use.

### Conditions for safe storage, including any incompatibilities

Storage:

No special storage required for hazard control. For product protection, follow storage recommendations on the case label, primary product label and insert.

Incompatible products:

Not applicable.

## 8. Exposure controls/personal protection

### Control parameters

Exposure guidelines: The exposure guidelines listed below are for the individual components and not the product itself.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Haloperidol	Not Available	1 $\mu$ g/m <sup>3</sup> (OEL)	Not Available
Propylene Glycol	Not Available	Not Available	Not Available
Methylparaben	Not Available	Not Available	Not Available
Propylparaben	10 mg/m <sup>3</sup> TWA (WEEL)	Not Available	Not Available
Lactic Acid	Not Available	Not Available	Not Available

### Appropriate engineering controls

Engineering measures:

Engineering controls should be used to limit exposure.

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## Individual protection measures, such as personal protective equipment

Eye/face protection: Not required under normal conditions of use. Wear safety glasses or goggles if eye contact is possible.

Skin and body protection: Impervious gloves and protective clothing are recommended if skin contact with drug product is possible and for bulk processing operations

Respiratory protection: Not required under normal use of the product. If the applicable PEL (Permissible Exposure Limit) is exceeded use an appropriate respirator.

Hygiene measures: Wash hands thoroughly after use.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state: Solution

Odor: Slight

Appearance: Clear colorless

Odor threshold: Not available

Property	Values	Remarks/Method
pH	2.75 – 3.75	Current USP
Melting point/range	Not applicable	
Boiling point/boiling range	Not available	
Flash point	Not applicable	
Evaporation rate	Not applicable	
Flammability (solid, gas)	Not applicable	
Flammability limits in air	Not applicable	
-upper flammability limit	Not applicable	
-lower flammability limit	Not applicable	
Vapor pressure	Not applicable	
Vapor density	Not applicable	
Specific gravity	1.01	Current USP
Water solubility	Not applicable	
Solubility in other solvents	Not applicable	
Partition coefficient: n-octanol/water	Not applicable	
Autoignition temperature	Not applicable	
Decomposition temperature	Not applicable	
Viscosity	Not available	
Flammable properties	Not applicable	
Explosive properties	Not applicable	
Oxidizing properties	Not applicable	

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## Other information

VOC content (%): None

## 10. Stability and reactivity

Reactivity	Stable at normal conditions
Chemical stability	Stable at normal conditions
Possibility of hazardous reactions	Stable at normal conditions
Conditions to avoid	None known
Incompatible materials	As a precautionary measure, keep away from strong oxidizers.
Hazardous decomposition products	None known

## 11. Toxicological information

### Information on likely routes of exposure

Product information:

- Inhalation: Not Available
- Eye contact: Not Available
- Skin contact: Not Available
- Ingestion: Not Available

The information included in this section, below, describes the potential hazards of the individual ingredients.

Chemical name	LD50 oral	LD50 dermal	LC50 inhalation
Haloperidol	128 mg/kg Rat	Not available	Not available
Propylene Glycol	20000 mg/kg Rat	20800 mg/kg Rabbit	Not available
Methylparaben	2100 mg/kg Rat	No skin irritation	Not available
Propylparaben	> 5000 mg/kg	Not available	Not available
Lactic Acid	3,543 mg/kg Rat	Rabbit > 2,000 mg/kg	Not available

### Symptoms related to the physical, chemical and toxicological characteristics

Therapeutic use of this substance has resulted in weakness, dizziness, drowsiness, ataxia, confusion, tremors, headache, and gastrointestinal disturbances. As with all antipsychotic agents, tardive dyskinesia may appear. This syndrome is characterized by rhythmical involuntary movements of the tongue, face, mouth or jaw. Higher doses may cause CNS stimulation and /or depression, and impairment of motor and cognitive skills.

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## Delayed and immediate effects and also chronic effects from short and long term exposure

- Sensitization: No data available
- Mutagenic effects: Bacterial mutagenicity (Ames) Positive
- Carcinogenicity: Not carcinogenic
- Reproductive toxicity: Developmental toxicity, Fetotoxicity
- STOT – single exposure: No data available
- STOT – repeated exposure: No data available
- Aspiration hazard: No data available

## Numerical measures of toxicity – product

No data available

## 12. Ecological information

**Ecotoxicity** Environmental properties have not been thoroughly evaluated for the product. Releases to the environment should be avoided.

### Persistence and Degradability

No data available

### Bioaccumulation

No data available

### Other adverse effects:

No data available

The following table includes data for the individual components.

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to micro-organisms	Daphnia Magna (water flea)
Haloperidol	Not Available	Not Available	Not Available	Not Available
Propylene Glycol	Not Available	52930 mg/L 96 hr. Pimephales promelas	Not Available	13020 mg/L 48 hr.
Methylparaben	91 mg/L 72 hr. Pseudokirchneriella subcapitata	59.5 mg/L 96 hr. Oryzias latipes	Not Available	41.1 mg/L 48 hr.
Propylparaben	7.6 mg/L 72 hr. Pseudokirchneriella subcapitata	6.4 mg/L 96 hr. Danio rerio	Not Available	15.4 mg/L
Lactic Acid	.28 mg/L 72 hr. Pseudokirchneriella subcapitata	130 mg/L 96 hr. Oncorhynchus mykiss	>100 mg/L 3 hr. Sludge treatment	130 mg/L 48 hr.

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## 13. Disposal considerations

### Waste disposal methods

Dispose of waste in accordance with all federal, state and local regulations.

### Contaminated packaging

Dispose of waste in accordance with all federal, state and local regulations.

## 14. Transport information

**Notes:** Not regulated for transport under USDOT, IATA, TDG, IMDG or other regulations.

## 15. Regulatory information

### International inventories

Haloperidol Oral Solution USP (Concentrate) is not listed on TASC, EINECS or IECSC inventories, but the active pharmaceutical ingredient is listed on TASC inventories.

### Legend

#### TSCA:

United States Toxic Substances Control Act 8(b) inventory not applicable to product. Haloperidol, Propylene Glycol, Methylparaben, Propylparaben and Lactic Acid are listed on the inventory.

#### EINECS:

Haloperidol, Propylene Glycol, Methylparaben, Propylparaben and Lactic Acid are listed on the inventory.

### U.S. Federal regulations

OSHA Label for Haloperidol component

May be harmful if swallowed.

May cause nervous system, cardiovascular system and reproductive effects.

### SARA 311/312 Hazard categories

Not Applicable

### Clean Water Act

This product **does not** contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### CERCLA

No components are listed under CERCLA.

### California Proposition 65:

This product does contain Haloperidol which is listed in Proposition 65 as a chemical developmental toxicity.



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## U.S. state Right-to-Know regulations

“X” designates that the ingredients are listed on the state Right-to-Know list

Chemical name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Haloperidol					
Propylene Glycol	X		X		
Methylparaben	X		X		
Propyl Paraben	X		X		
Lactic Acid	X		X		

## U.S. EPA label information

Not applicable

## 16. Other information

Prepared by:	Pharmaceutical Associates Regulatory Affairs
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### General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**