

## SAFETY DATA SHEET

### SECTION 1 : IDENTIFICATION

**Product Name:** **Fluphenazine Hydrochloride Injection, USP**  
**Manufacturer Name:** Fresenius Kabi USA, LLC  
**Address:** Three Corporate Drive  
 Lake Zurich, Illinois 60047  
**General Phone Number:** (847) 550-2300  
**Customer Service Phone Number:** (888) 386-1300  
**Health Issues Information:** (800) 551-7176  
**SDS Creation Date:** January 08, 2009  
**SDS Revision Date:** February 19, 2024

### SECTION 2 : HAZARD(S) IDENTIFICATION

GHS Pictograms:



**Signal Word:** DANGER.

**GHS Class:** Respiratory sensitisation. category 1.  
Skin Sensitization. category 1.

**Hazard Statements:** May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.

**Precautionary Statements:** Avoid breathing dust/fume/gas/mist/vapours/spray.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
In case of inadequate ventilation wear respiratory protection.  
IF ON SKIN: Wash with plenty of water.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Specific treatment (see ... on this label).  
If skin irritation or rash occurs: Get medical advice/attention.  
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
Take off contaminated clothing and wash it before reuse.  
Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

**Emergency Overview:** This product is intended for therapeutic use only when prescribed by a physician. Potential adverse reactions from prescribed doses and overdoses are described in the package insert.

**Route of Exposure:** Inhalation Ingestion Eye contact Skin Absorption. Injection.

**Potential Health Effects:**

**Eye:** Contact with eyes may cause irritation.

**Skin:** May cause skin irritation.

**Inhalation:** May cause irritation of respiratory tract.

**Ingestion:** May cause irritation.

**Signs/Symptoms:** Adverse reactions from therapeutic doses include: pseudoparkinsonism, dystonia, dyskinesia, akathisia, oculogyric crises, opisthotonos, hyperflexia, muscle rigidity, neuroleptic malignant syndrome, leukocytosis, elevated CPK, liver function abnormalities, acute renal failure, drowsiness, lethargy, blurred vision, glaucoma, hypertension and fluctuations in blood pressure, nausea, loss of appetite, salivation, polyuria, perspiration, dry mouth, headache, weight change, peripheral edema, skin disorders (itching, erythema, urticaria, photosensitivity), and liver damage manifested by cholestatic jaundice. Occupational exposure has not been fully investigated.

**Aggravation of Pre-Existing Conditions:** Pre-existing skin and respiratory conditions, as well as cholestatic jaundice, dermatoses, or other allergic reactions to phenothiazine derivatives.

### SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent	EC Num.
Fluphenazine Hydrochloride	146-56-5	2.5 mg/mL	
Propylparaben	94-13-3	0.1 mg/mL	
Methylparaben	99-76-3	1 mg/mL	
Sodium Chloride	7647-14-5	9 mg/mL	

**SECTION 4 : FIRST AID MEASURES**

<b>Eye Contact:</b>	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.
<b>Skin Contact:</b>	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
<b>Inhalation:</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
<b>Ingestion:</b>	If conscious, flush mouth out with water immediately. Call a physician or poison control center immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
<b>Other First Aid:</b>	For Adverse Event Information, please call (800) 551-7176.

**SECTION 5 : FIRE FIGHTING MEASURES**

<b>Flash Point:</b>	Not established.
<b>Flash Point Method:</b>	Not established.
<b>Auto Ignition Temperature:</b>	Not established.
<b>Lower Flammable/Explosive Limit:</b>	Not established.
<b>Upper Flammable/Explosive Limit:</b>	Not established.
<b>Fire Fighting Instructions:</b>	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.
<b>Extinguishing Media:</b>	Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires involving this material. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Protective Equipment:</b>	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Hazardous Combustion Byproducts:</b>	Thermal decomposition products may include smoke and toxic fumes. Oxides of carbon, oxides of nitrogen and other organic substances may be formed. Other undetermined low molecular weight hydrocarbon compounds may be released in small quantities depending upon specific conditions of combustion.

**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions:</b>	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Avoid personal contact and breathing vapors or mists. Use proper personal protective equipment as listed in Section 8.
<b>Environmental Precautions:</b>	Avoid runoff into storm sewers, ditches, and waterways.
<b>Methods for containment:</b>	Contain spills with an inert absorbent material such as soil, sand or oil dry.
<b>Methods for cleanup:</b>	Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. After removal, flush spill area with soap and water to remove trace residue.

**SECTION 7 : HANDLING and STORAGE**

<b>Handling:</b>	When handling pharmaceutical products, avoid all contact and inhalation of vapor, mists and/or fumes. Use with adequate ventilation. Use only in accordance with directions.
<b>Storage:</b>	Store at controlled room temperature 20 to 25°C (68 to 77°F). [See USP Controlled Room Temperature]. Protect from light.
<b>Work Practices:</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
<b>Hygiene Practices:</b>	Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

**SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION**

<b>Engineering Controls:</b>	General ventilation is sufficient if this product is being used in a controlled medical setting (clinic, hospital, medical office) for its sole intended parenteral (injection) purpose. Otherwise, use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls including use of a biosafety cabinet / fume hood to control airborne levels below recommended exposure limits.
<b>Eye/Face Protection:</b>	Chemical splash goggles. Wear a face shield also when splash hazard exist.
<b>Skin Protection Description:</b>	Protective laboratory coat, apron, or disposable garment recommended.

<b>Hand Protection Description:</b>	Wear appropriate protective gloves. Consult glove manufacturer's data for permeability data. Nitrile rubber or natural rubber gloves are recommended.
<b>Respiratory Protection:</b>	No personal respiratory protective equipment is normally required when this product is being used/administered by a licensed healthcare practitioner (i.e. an end-user such as a clinician / doctor / nurse) for its sole intended parenteral (injection) purpose in a controlled medical setting. The need for respiratory protection will vary according to the airborne concentrations and environmental conditions. A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances. Consult the NIOSH web site ( <a href="http://www.cdc.gov/niosh/npptl/topics/respirators/">http://www.cdc.gov/niosh/npptl/topics/respirators/</a> ) for a list of respirator types and approved suppliers.
<b>Other Protective:</b>	Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

## EXPOSURE GUIDELINES

### SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid solution.
<b>Color:</b>	Colorless.
<b>Odor:</b>	Odorless.
<b>Boiling Point:</b>	Not established.
<b>Melting Point:</b>	225 - 230 °C (fluphenazine hydrochloride)
<b>Solubility:</b>	Soluble. in water.
<b>Vapor Density:</b>	Not established.
<b>Vapor Pressure:</b>	Not established.
<b>Percent Volatile:</b>	Not established.
<b>pH:</b>	4.8-5.2
<b>Molecular Formula:</b>	Mixture
<b>Molecular Weight:</b>	510.44
<b>Flash Point:</b>	Not established.
<b>Flash Point Method:</b>	Not established.
<b>Auto Ignition Temperature:</b>	Not established.

### SECTION 10 : STABILITY and REACTIVITY

<b>Chemical Stability:</b>	Stable under normal temperatures and pressures.
<b>Hazardous Polymerization:</b>	Not reported.
<b>Conditions to Avoid:</b>	Protect from freezing.. Exposure to light may cause decomposition.

### SECTION 11 : TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	Eye, skin, and respiratory irritation. CNS depression and restlessness may occur. Contact dermatitis has been reported in rare cases with skin exposure. Pseudoparkinsonism, dystonia, dyskinesia, akathisia, oculogyric crises, opisthotonos, hyperflexia, muscle rigidity, neuroleptic malignant syndrome, leukocytosis, elevated CPK, liver function abnormalities, acute renal failure, drowsiness, lethargy, blurred vision, glaucoma, hypertension and fluctuations in blood pressure, nausea, loss of appetite, salivation, polyuria, perspiration, dry mouth, headache, weight change, peripheral edema, skin disorders (itching, erythema, urticaria, photosensitivity), and liver damage manifested by cholestatic jaundice. Occupational exposure has not been fully investigated.
<b>Acute Effects:</b>	Eye, skin, and respiratory irritation. CNS depression and restlessness may occur. Contact dermatitis has been reported in rare cases with skin exposure.
<b>Chronic Effects:</b>	Hypersensitivity reactions ranging from mild to severe may occur. The possibility of liver damage, pigmentary retinopathy, lenticular and corneal deposits and development of irreversible dyskinesia exists for patients receiving therapeutic levels for prolonged periods.
<b><u>Fluphenazine Hydrochloride :</u></b>	
<b>RTECS Number:</b>	TL9800000
<b>Ingestion:</b>	Oral - Mouse LD50: 220 mg/kg [Details of toxic effects not reported other than lethal dose value]
<b>Other Toxicological Information:</b>	Intravenous. - Mouse LD50: 56 mg/kg [Details of toxic effects not reported other than lethal dose value] Subcutaneous - Mouse TDLo: 0.52 mg/kg [Biochemical - Neurotransmitters or modulators (putative) - dopamine in striatum] Subcutaneous - Mouse TDLo: 0.28 mg/kg [Sense Organs and Special Senses (Olfaction) - effect, not otherwise specified] Intraperitoneal. - Mouse LD50: 89 mg/kg [Details of toxic effects not reported other than lethal dose value] Intraperitoneal. - Guinea pig LD50: 299 mg/kg [Details of toxic effects not reported other than lethal dose value] Intraperitoneal. - Mouse Micronucleus test: 42500 ug/kg Intraperitoneal. - Mouse Cytogenetic analysis: 21250 ug/kg
<b><u>Propylparaben :</u></b>	

**RTECS Number:** DH2800000  
**Ingestion:** Oral - Mouse LD50: 6332 mg/kg [Details of toxic effects not reported other than lethal dose value]  
**Other Toxicological Information:** Subcutaneous - Mouse LD50: 1650 mg/kg [Details of toxic effects not reported other than lethal dose value]  
Subcutaneous - Mouse TDLo: 51 mg/kg/3D (intermittent) [Related to Chronic Data - changes in uterine weight]  
Subcutaneous - Rat TDLo: 99 mg/kg/3D (intermittent) [Related to Chronic Data - changes in uterine weight]  
Subcutaneous - Mouse TDLo: 195 mg/kg/3D (intermittent) [Reproductive - Maternal Effects - uterus, cervix, vagina Related to Chronic Data - changes in uterine weight]  
Intraperitoneal. - Mouse LD50: 200 mg/kg [Details of toxic effects not reported other than lethal dose value]

#### **Methylparaben :**

**RTECS Number:** DH2450000  
**Skin:** Administration onto the skin - Rabbit Standard Draize test.: 0.1 mL/24H  
Administration onto the skin - Rabbit Standard Draize test.: 0.5 mL/21D (Intermittent)  
Administration onto the skin - Rat TDLo: 374.92 gm/kg/13W (Intermittent) [Nutritional and Gross Metabolic - Weight loss or decreased weight gain Blood - Other changes]  
**Ingestion:** Oral - Mouse LD50: >8 gm/kg [Peripheral Nerve and Sensation - Flaccid paralysis without anesthesia (usually neuromuscular blockage) Behavioral - Ataxia]  
Oral - Mouse LD50: >8000 mg/kg [Behavioral - Ataxia]  
Oral - Rat LD50: 2100 mg/kg [Details of toxic effects not reported other than lethal dose value]  
**Other Toxicological Information:** Intravenous. - Mouse TDLo: 100 mg/kg [Vascular - shock Lungs, Thorax, or Respiration - respiratory depression]  
Intravenous. - Mouse TDLo: 2.5 mg/kg [Lungs, Thorax, or Respiration - tumors]  
Subcutaneous - Mouse TDLo: 165 mg/kg [Behavioral - ataxia Lungs, Thorax, or Respiration - respiratory depression]  
Subcutaneous - Mouse LD50: 1.2 gm/kg [Details of toxic effects not reported other than lethal dose value]  
Subcutaneous - Rat LD50: >500 mg/kg [Details of toxic effects not reported other than lethal dose value]  
Subcutaneous - Mouse TDLo: 49.5 mg/kg/3D (intermittent) [Related to Chronic Data - changes in uterine weight]  
Subcutaneous - Mouse TDLo: 165 mg/kg/3D (intermittent) [Reproductive - Maternal Effects - uterus, cervix, vagina Related to Chronic Data - changes in uterine weight]  
Intraperitoneal. - Mouse LD50: 960 mg/kg [Peripheral Nerve and Sensation - flaccid paralysis without anesthesia (usually neuromuscular blockage) Behavioral - somnolence (general depressed activity) Behavioral - ataxia]  
Intraperitoneal. - Mouse LD50: 125 mg/kg [Details of toxic effects not reported other than lethal dose value]  
Intraperitoneal. - Rat LD50: 960 mg/kg [Details of toxic effects not reported other than lethal dose value]

#### **Sodium Chloride :**

**RTECS Number:** VZ4725000  
**Eye:** Eye - Rabbit Standard Draize test.: 10 mg [Moderate]  
**Skin:** Administration onto the skin - Rabbit LD50: >10 gm/kg [Details of toxic effects not reported other than lethal dose value]  
Administration onto the skin - Rabbit Standard Draize test.: 50 mg/24H [mild]  
Administration onto the skin - Rabbit Standard Draize test.: 500 mg/24H [mild]  
**Inhalation:** Inhalation - Rat LC50: >42 gm/m<sup>3</sup>/1H [Details of toxic effects not reported other than lethal dose value]  
**Ingestion:** Oral - Mouse LD50: 4 gm/kg [Details of toxic effects not reported other than lethal dose value]  
Oral - Rat LD50: 3000 mg/kg [Details of toxic effects not reported other than lethal dose value]  
**Other Toxicological Information:** Intravenous. - Mouse LD50: 645 mg/kg [Details of toxic effects not reported other than lethal dose value]  
Intravenous. - Rabbit LDLo: 1100 mg/kg [Behavioral - convulsions or effect on seizure threshold Behavioral - muscle contraction or spasticity Cardiac - other changes]  
Intravenous. - Guinea pig LDLo: 300 mg/kg [Details of toxic effects not reported other than lethal dose value]  
Intravenous. - Mouse TDLo: 2.1 mg/kg [Vascular - other changes Blood - hemorrhage Skin and Appendages - dermatitis, irritative (after systemic exposure)]  
Intravenous. - Rabbit LDLo: 1.5 mg/kg [Details of toxic effects not reported other than lethal dose value]  
Intravenous. - Rabbit TDLo: 0.04 mg/kg [Vascular - other changes Blood - hemorrhage Skin and Appendages - dermatitis, irritative (after systemic exposure)]  
Subcutaneous - Rat LDLo: 3500 mg/kg [Behavioral - irritability]  
Subcutaneous - Mouse LD50: 3 gm/kg [Details of toxic effects not reported other than lethal dose value]  
Subcutaneous - Guinea pig LDLo: 2160 mg/kg [Details of toxic effects not reported other than lethal dose value]  
Subcutaneous - Rabbit TDLo: 0.04 mg/kg [Vascular - other changes Skin and Appendages - dermatitis, irritative (after systemic exposure)]  
Subcutaneous - Mouse TDLo: 1900 mg/kg [Reproductive - Effects on Embryo or Fetus - fetal death]  
Subcutaneous - Mouse TDLo: 1900 mg/kg [Reproductive - Specific Developmental Abnormalities - musculoskeletal system]  
Subcutaneous - Mouse TDLo: 2500 mg/kg [Reproductive - Effects on Embryo or Fetus - fetotoxicity (except death, e.g., stunted fetus)]  
Subcutaneous - Mouse TDLo: 13440 mg/kg [Reproductive - Fertility - abortion]  
Intraperitoneal. - Mouse LD50: 2602 mg/kg [Details of toxic effects not reported other than lethal dose value]  
Intraperitoneal. - Rat LD50: 2600 mg/kg [Details of toxic effects not reported other than lethal dose value]  
Intraperitoneal. - Rat LDLo: 3.72 gm/kg [Behavioral - tremor Behavioral - convulsions or effect on seizure threshold]  
Intraperitoneal. - Rat TDLo: 1710 mg/kg [Reproductive - Effects on Embryo or Fetus - fetotoxicity (except death, e.g., stunted fetus) Reproductive - Effects on Embryo or Fetus - fetal death Reproductive - Specific Developmental Abnormalities - musculoskeletal system]  
Intraperitoneal. - Rat TDLo: 10 gm/kg [Reproductive - Effects on Newborn - behavioral]  
Intraperitoneal. - Rat Cytogenetic analysis: 2338 mg/kg

## **SECTION 12 : ECOLOGICAL INFORMATION**

**Ecotoxicity:** No ecotoxicity data was found for the product.

Environmental Stability:

No environmental information found for this product.

### SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal:

Dispose of in accordance with Local, State, Federal and Provincial regulations.

### SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name:

Not Regulated.

DOT UN Number:

Not Regulated.

### SECTION 15 : REGULATORY INFORMATION

#### Fluphenazine Hydrochloride :

EINECS Number: 205-674-1

Canada DSL: Listed

#### Propylparaben :

TSCA Inventory Status: Listed

EINECS Number: 202-307-7

Canada DSL: Listed

#### Methylparaben :

TSCA Inventory Status: Listed

EINECS Number: 202-785-7

Canada DSL: Listed

#### Sodium Chloride :

TSCA Inventory Status: Listed

EINECS Number: 231-598-3

Canada DSL: Listed

### SECTION 16 : ADDITIONAL INFORMATION

#### HMIS Ratings:

HMIS Health Hazard: 2\*

HMIS Fire Hazard: 0

HMIS Reactivity: 0

HMIS Personal Protection: X

SDS Creation Date: January 08, 2009

SDS Revision Date: February 19, 2024

SDS Revision Notes: Overall SDS review - no changes to formulation. Added HMIS ratings for Health, Flammability, Reactivity, and Personal Protective Equipment (PPE).

#### Disclaimer:

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