

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: Chlorpromazine Hydrochloride Injection, USP

1.2. Intended Use of the Product

Antipsychotic injectable medication

1.3. Name, Address, and Telephone of the Responsible Party

Manufacturer

Immaculé Lifesciences (P) Ltd
VIII. Thanthawal, Ropar Road,
Nalagarh, Dist, Solan, (H.P.)-174101 India
Tel : +91 01795-228601, 02, 03
Fax: +91 01795-228600

Distributor

Fresenius Kabi USA, LLC
Three Corporate Drive
Lake Zurich, IL 60047
General Phone Number: (847) 550-2300
Customer Service Phone Number: (888) 386-1300
Health Issues Information: (800) 551-7176
<http://www.fresenius-kabi.com/us/>

1.4. Emergency Telephone Number

Emergency Number : VelocityEHS
(800)255-3924 (North America)
+1 (813)248-0585 (International)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US/CA Classification

Acute toxicity (inhalation:dust,mist) Category 3	H331
Serious eye damage/eye irritation Category 2	H319
Reproductive toxicity Category 2	H361
Reproductive toxicity, Additional category, Effects on or via lactation	H362
Specific target organ toxicity (repeated exposure) Category 2	H373

2.2. Label Elements

GHS-US/CA Labeling

Hazard Pictograms (GHS-US/CA)



Signal Word (GHS-US/CA)

: Danger

Hazard Statements (GHS-US/CA)

: H319 - Causes serious eye irritation.
H331 - Toxic if inhaled.
H361 - Suspected of damaging fertility or the unborn child (oral).
H362 - May cause harm to breast-fed children.
H373 - May cause damage to organs (central nervous system) through prolonged or repeated exposure (oral).

Precautionary Statements (GHS-US/CA)

: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe vapors, mist, or spray.

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P263 - Avoid contact during pregnancy/while nursing.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, and eye protection.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P311 - Call a POISON CENTER or doctor.
P321 - Specific treatment (see section 4 on this SDS).
P337+P313 - If eye irritation persists: Get medical advice/attention.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US/CA)

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Water	AQUA	(CAS-No.) 7732-18-5	60 – 100	Not classified.
Chlorpromazine hydrochloride	2-Chloro-10-(3-dimethylaminopropyl)phenothiazine monohydrochloride Chlorpromazine chloride Chlorpromazine hydrochloride Chlorpromazine monohydrochloride Chlorpromazinium chloride 10-(3-Dimethylaminopropyl)-2-chlorophenothiazine monohydrochloride Phenothiazine hydrochloride Phenothiazine, 2-chloro-10-(3-(dimethylamino)propyl)-, monohydrochloride 4560 RP hydrochloride Thorazine hydrochloride 10H-Phenothiazine-10-propanamine, 2-chloro-N,N-dimethyl-, hydrochloride (1:1) N,N-Dimethyl-2-chloro-10H-Phenothiazine-10-propanamine hydrochloride N,N-Dimethyl-2-chloro-10H-phenothiazine-10-propanamine hydrochloride	(CAS-No.) 69-09-0	2.5	Acute Tox. 3 (Oral), H301 Acute Tox. 1 (Inhalation: dust, mist), H330 Repr. 2, H361 Lact, H362 STOT RE 2, H373
L-Ascorbic acid	Antiscorbic vitamin Antiscorbic vitamin Ascorbic acid L(+)-Ascorbic acid Ascorbic acid, L- L-3-Ketothreohexuronic acid lactone Vitamin C ASCORBIC ACID ascorbic acid	(CAS-No.) 50-81-7	0.1 – 1	Comb. Dust
Sodium metabisulfite	Disodium disulphite Disulfurous acid, disodium salt	(CAS-No.) 7681-57-4	0.1 – 1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

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	Pyrosulfurous acid, disodium salt Sodium metabisulphite Sodium disulfite Sodium pyrosulfite Disulfurous acid, sodium salt (1:2) SODIUM METABISULFITE Disodium disulfite Sodium disulphite			Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Sodium chloride	Sodium salt of hydrochloric acid Salt SEA SALT SODIUM CHLORIDE Sodium chloride (NaCl) Sea salt	(CAS-No.) 7647-14-5	0.1 – 1	Not classified.
Sodium sulfite	Sodium sulfite, anhydrous SODIUM SULFITE Disodium sulphite Sulfurous acid, sodium salt (1:2) Sulfurous acid, disodium salt Sodium sulphite Sodium sulfite (2:1)	(CAS-No.) 7757-83-7	0.1 – 1	Not classified.

* The actual concentration of ingredient(s) is withheld as a trade secret in accordance with the Hazardous Products Regulations (HPR) SOR/2015-17 and 29 CFR 1910.1200. Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%). Full text of H-statements: see section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

Inhalation: First, take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate respiratory protective equipment, use the buddy system), then remove the exposed person to fresh air. Keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

Skin Contact: Immediately drench affected area with water for at least 15 minutes. Remove contaminated clothing. If exposed or concerned: Get medical advice/attention.

Eye Contact: Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: May cause damage to organs (central nervous system) through prolonged or repeated exposure (if swallowed). Suspected of damaging fertility or the unborn child (if swallowed). Causes serious eye irritation. May cause harm to breast-fed children. Toxic if inhaled.

Inhalation: Inhalation of this material can cause serious health effects in small amounts, leading to unconsciousness and death.

Skin Contact: Prolonged exposure may cause skin irritation.

Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: May cause damage to organs (central nervous system) (if swallowed). Suspected of damaging fertility or the unborn child (if swallowed).

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

Accidental injection of chlorpromazine should be treated as a medical emergency due to the potential for severe hypertension in addition to or with concurrent q-t prolongation and/or cardiac arrhythmias. Normal symptoms include sedation and possible uncontrolled movements (extrapyramidal effects). Electrocardiograms are highly recommended as part of the assessment process.

No specific antidote is advised; treatment should be based on the overall clinical presentation.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Solutions do not burn. Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: None known.

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5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Product is not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Oxides of carbon, sodium, nitrogen and sulfur, chlorine compounds, all in trace quantities.

Other Information: No additional information available.

5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray. If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions. Ventilate area.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Material may be biologically contaminated with pathogenic organisms during use.

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not breathe mist, spray, or vapors. Avoid contact with skin, eyes and clothing. Avoid contact during pregnancy/while nursing. Use only outdoors or in a well-ventilated area.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use (multi-dose vials). Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

Storage Temperature: Store at 20° to 25°C (68° to 77°F), excursions permitted to 15° to 30°C (59° to 86°F) [See USP Controlled Room Temperature]. Protect from freezing.

Storage Area: Keep cool. Protect from sunlight.

7.3. Specific End Use(s)

Antipsychotic injectable medication

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Sodium metabisulfite (7681-57-4)		
USA ACGIH	ACGIH OEL TWA	5 mg/m ³
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (TWA)	5 mg/m ³
Alberta	OEL TWA	5 mg/m ³
British Columbia	OEL TWA	5 mg/m ³
Manitoba	OEL TWA	5 mg/m ³
New Brunswick	OEL TWA	5 mg/m ³
Newfoundland & Labrador	OEL TWA	5 mg/m ³
Nova Scotia	OEL TWA	5 mg/m ³
Nunavut	OEL STEL	10 mg/m ³
Nunavut	OEL TWA	5 mg/m ³
Northwest Territories	OEL STEL	10 mg/m ³
Northwest Territories	OEL TWA	5 mg/m ³
Ontario	OEL TWAEV	5 mg/m ³
Prince Edward Island	OEL TWA	5 mg/m ³
Québec	VEMP (OEL TWAEV)	5 mg/m ³
Saskatchewan	OEL STEL	10 mg/m ³
Saskatchewan	OEL TWA	5 mg/m ³

8.2. Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when toxic gases may be released.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles or glasses. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Thermal Hazard Protection: Not applicable.

Environmental Exposure Controls: Avoid unnecessary release into the environment.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Colorless to light yellow aqueous solution
Odor	: No data available
Odor Threshold	: No data available
pH	: 3.4 – 5.4
Evaporation Rate	: No data available

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Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: Not applicable
Lower Flammable Limit	: No data available
Upper Flammable Limit	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Specific Gravity	: No data available
Solubility	: Water: Miscible/soluble
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability:

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

10.4. Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials:

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous Decomposition Products:

Thermal decomposition may produce: Oxides of carbon, sodium, nitrogen and sulfur, chlorine compounds, all in trace quantities.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Likely routes of exposure: Dermal, Ingestion, Inhalation, Eye contact.

Acute Toxicity (Oral): Not classified.

Acute Toxicity (Dermal): Not classified.

Acute Toxicity (Inhalation): Inhalation:dust,mist: Toxic if inhaled.

LD50 and LC50 Data:

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ATE US/CA (dust, mist)	0.80 mg/l/4h

Skin Corrosion/Irritation: Not classified.

pH: 3.4 – 5.4

Eye Damage/Irritation: Causes serious eye irritation.

pH: 3.4 – 5.4

Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified.

Carcinogenicity: Not classified.

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs (central nervous system) through prolonged or repeated exposure (oral).

Reproductive Toxicity: Suspected of damaging fertility or the unborn child (oral). May cause harm to breast-fed children.

Specific Target Organ Toxicity (Single Exposure): Not classified.

Aspiration Hazard: Not classified.

Symptoms/Injuries After Inhalation: Inhalation of this material can cause serious health effects in small amounts, leading to unconsciousness and death.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

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Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: May cause damage to organs (central nervous system) (if swallowed). Suspected of damaging fertility or the unborn child (if swallowed).

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

L-Ascorbic acid (50-81-7)	
LD50 Oral Rat	11900 mg/kg
Sodium metabisulfite (7681-57-4)	
LD50 Oral Rat	1131 mg/kg
LD50 Dermal Rat	> 2000 mg/kg (Source: NLM_HSDB)
Sodium chloride (7647-14-5)	
LD50 Oral Rat	3550 mg/kg (Species: Wistar)
LD50 Dermal Rabbit	> 10000 mg/kg (Species: New Zealand White)
LC50 Inhalation Rat	> 42 mg/l (Exposure time: 1 h Source: ECHA_API)
Sodium sulfite (7757-83-7)	
LD50 Oral Rat	3560 mg/kg
LD50 Dermal Rat	> 2000 mg/kg (Species: Wistar)
LC50 Inhalation Rat	> 22 mg/l (Exposure time: 1 h Source: IUCLID)
ATE US/CA (dust, mist)	> 5.5 mg/l/4h [4-hour calculated value]
Water (7732-18-5)	
LD50 Oral Rat	> 90 ml/kg (Source: FOOD_JOURN)
Chlorpromazine hydrochloride (69-09-0)	
LD50 Oral Rat	145 mg/kg (Source: NLM_CIP)
LC50 Inhalation Rat	40 mg/m ³ (Exposure time: 2 h Source: NLM_CIP)
ATE US/CA (dust, mist)	0.02 mg/l/4h [4-hour calculated value]
Sodium metabisulfite (7681-57-4)	
IARC Group	3
Sodium sulfite (7757-83-7)	
IARC Group	3

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Not classified.

Sodium metabisulfite (7681-57-4)	
LC50 Fish 1	32 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: IUCLID)
ErC50 algae	48.1 mg/l
Sodium chloride (7647-14-5)	
LC50 Fish 1	5560 (5560 – 6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
EC50 - Crustacea [1]	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
EC50 - Crustacea [2]	340.7 (340.7 – 469.2) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
NOEC Chronic Fish	252 mg/l (Species: Pimephales promelas)
Sodium sulfite (7757-83-7)	
LC50 Fish 1	460 g/l (Exposure time: 96 h - Species: Gambusia affinis)

12.2. Persistence and Degradability

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Persistence and Degradability	Expected to be biodegradable.

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12.3. Bioaccumulative Potential

Chlorpromazine Hydrochloride Injection, USP	
Bioaccumulative Potential	Not expected to bioaccumulate.
Sodium metabisulfite (7681-57-4)	
Partition coefficient n-octanol/water (Log Pow)	-3.7 (at 25 °C)
Sodium chloride (7647-14-5)	
BCF Fish 1	(no bioaccumulation)
Sodium sulfite (7757-83-7)	
Partition coefficient n-octanol/water (Log Pow)	-4 (at 25 °C)

12.4. Mobility in Soil

Chlorpromazine Hydrochloride Injection, USP	
Ecology - Soil	Adsorbs into the soil. Leaches if exposed to water.

12.5. Other Adverse Effects

Other Adverse Effects: None known.

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Treatment Methods: Incineration is the preferred method for disposal of waste product.

Sewage Disposal Recommendations: Do not dispose of waste into sewer. Do not empty into drains.

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Additional Information: Biologically contaminated materials should be incinerated.

Ecology - Waste Materials: Avoid unnecessary release into the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Not regulated for transport

14.2. In Accordance with IMDG

Not regulated for transport

14.3. In Accordance with IATA

Not regulated for transport

14.4. In Accordance with TDG

Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Chlorpromazine Hydrochloride Injection, USP	
SARA Section 311/312 Hazard Classes	Health hazard - Reproductive toxicity Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Serious eye damage or eye irritation Health hazard - Acute toxicity (any route of exposure)
L-Ascorbic acid (50-81-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Sodium metabisulfite (7681-57-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Sodium chloride (7647-14-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	

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Sodium sulfite (7757-83-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Water (7732-18-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Chlorpromazine hydrochloride (69-09-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

15.2. US State Regulations

Sodium metabisulfite (7681-57-4)
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Massachusetts - Right To Know List

15.3. Canadian Regulations

L-Ascorbic acid (50-81-7)
Listed on the Canadian DSL (Domestic Substances List)
Sodium metabisulfite (7681-57-4)
Listed on the Canadian DSL (Domestic Substances List)
Sodium chloride (7647-14-5)
Listed on the Canadian DSL (Domestic Substances List)
Sodium sulfite (7757-83-7)
Listed on the Canadian DSL (Domestic Substances List)
Water (7732-18-5)
Listed on the Canadian DSL (Domestic Substances List)
Chlorpromazine hydrochloride (69-09-0)
Listed on the Canadian DSL (Domestic Substances List)

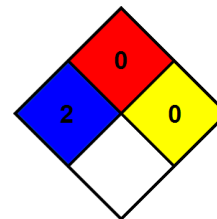
SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision	: 02/21/2025
Other Information	: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

GHS Full Text Phrases:

H301	Toxic if swallowed
H302	Harmful if swallowed
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H331	Toxic if inhaled
H361	Suspected of damaging fertility or the unborn child
H362	May cause harm to breast-fed children
H373	May cause damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

NFPA Health Hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA Fire Hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA Reactivity Hazard	: 0 - Material that in themselves are normally stable, even under fire conditions.



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HMIS III Rating

Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard
Personal protection	: C

Glossary of Data Source Abbreviations

ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)

AU_WES: Australia WES

CHEMVIEW: ChemView (U.S. Environmental Protection Agency)

EC_RAR: European Commission Renewal Assessment Report

EC_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits

ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports

ECHA_API: European Chemicals Agency API

ECHA_RAC: ECHA Committee for Risk Assessment

EFSA: European Food Safety Authority

EPA: U.S. Environmental Protection Agency

EPA_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)

EPA_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency)

EPA_HPV: High Production Volume Chemicals (U.S. Environmental Protection Agency)

EPA_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)

EU_CLH: European Union Harmonised Classification and Labelling Proposal

EU_RAR: European Union Risk Assessment Report

FOOD_JOURN: Food Research Journal (1956)

IARC: The International Agency for Research on Cancer

IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles

IUCLID: International Uniform Chemical Information Database

JAPAN_GHS: Japan GHS Basis for Classification Data

JP_J-CHECK: Japan J-Check

KR_NIER: South Korea National Institute of Environmental Research Evaluations

NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme

NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)

NLM_CIP: National Library of Medicine ChemID plus database

NLM_HSDB: National Library of Medicine Hazardous Substance Data Bank

NLM_PUBMED: National Library of Medicine PubMed database

NTP: National Toxicology Program

NZ_CCID: New Zealand Chemical Classification and Information Database

OECD_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)

OECD_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)

WHO: World Health Organization

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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