



**SDS: Promethazine HCl, Phenylephrine HCl and
Codeine Phosphate Syrup CV**

SAFETY DATA SHEET

1. Identification

Product Identifier: Promethazine Hydrochloride, Phenylephrine Hydrochloride and Codeine Phosphate Syrup CV

Synonyms: Proazamine chloride; m-Syneprine hydrochloride; Methylmorphine Phosphate

National Drug Code (NDC): 50383-805-04
50383-805-16

Recommended Use: Pharmaceutical.

Company: Akorn, Inc.
1925 West Field Court, Suite 300
Lake Forest, Illinois 60045

Contact Telephone: 1-800-932-5676

E mail: customer.service@akorn.com

Emergency Phone Number: CHEMTREC 1-800-424-9300 (U.S. and Canada)

2. Hazard(s) Identification

Physical Hazards: Not classifiable.

Health Hazards: Not classifiable.

Symbol(s): None.

Signal Word: None.

Hazard Statement(s): None.

Precautionary Statement(s): None.

Hazards Not Otherwise Classified: Not classifiable.

Supplementary Information: While this material is not classifiable as hazardous under the OSHA standard, this SDS contains valuable information critical to safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

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3. Composition/Information on Ingredients

Chemical Name	CAS Number	Synonyms	Chemical Formula	Molecular Weight	Percentage
10H-Phenothiazine-10-ethanamine, N,N,alpha-trimethyl-, monohydrochloride	58-33-3	Proazamine chloride	C ₁₇ H ₂₀ N ₂ S•HCl	320.88	0.1%
Benzenemethanol, 3-hydroxy-alpha-[(methylamino)methyl]-, hydrochloride (R)-	61-76-7	m-Synephrine hydrochloride	C ₉ H ₁₃ NO ₂ •HCl	203.67	0.1%
Morphinan-6-ol, 7,8-didehydro-4,5-epoxy-3-methoxy-17- methyl-, (5alpha,6alpha)-, phosphate (1:1) (salt), hemihydrate	41444-62-6	Methylmorphine Phosphate	C ₁₈ H ₂₁ NO ₃ •H ₃ O ₄ P•½H ₂ O	406.37	0.2%
Ethyl alcohol	64-17-5	Alcohol	C ₂ H ₅ OH	46.07	7%

*The formula also contains Abscorbic Acid, Citric Acid, FD&C Yellow #6, Methylparaben, Natural Tangerine Extract, Propylene Glycol, Propylparaben, Purified Water, Sodium Benzoate, Sodium Citrate, and Sucrose Syrup.

4. First Aid Measures

Ingestion:

If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth with water. If swallowed, seek medical advice immediately and show the container or label. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Eye Contact:

Remove from source of exposure. Flush with copious amounts of water for at least 15 minutes. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. Ensure that medical personnel are aware of the material(s) involved and are aware of precautions to protect themselves.

Skin Contact:

Remove from source of exposure. Remove and isolate contaminated clothing and shoes. Flush with copious amounts of water for at least 20 minutes. Use soap. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. Ensure that medical personnel are aware of the material(s) involved and are aware of precautions to protect themselves.

Inhalation:

Remove from source of exposure. Move individual(s) to fresh air. Give artificial respiration if individual(s) are not breathing and call emergency medical service. If signs of toxicity occur, seek medical attention. Provide

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symptomatic/supportive care as necessary. Ensure that medical personnel are aware of the material(s) involved and are aware of precautions to protect themselves.

Protection of First-Aiders: Use personal protective equipment (see section 8).

Signs and Symptoms: Solution is intended for human consumption under guidance of a physician. Solution is not considered hazardous under normal conditions.

Medical Conditions Aggravated by Exposure: None.

Notes to Physician: Treat supportively and symptomatically.

Other Health Warnings: OVERDOSAGE: Antihistamines: Sedation, dizziness, diplopia, vomiting, diarrhea, dry mouth, headache, nervousness, nausea, anorexia, heartburn, weakness, polyuria and dysuria and rarely excitability in children. Urinary retention may occur in patients with prostatic hypertrophy.

Promethazine HCl: Signs and symptoms of overdose with promethazine range from mild depression of the central nervous system and cardiovascular system to profound hypotension, respiratory depression, and unconsciousness.

Codeine Phosphate: Serious overdose with Codeine is characterized by respiratory depression (a decrease in respiratory rate and/or tidal volume, Cheyne-Stokes respiration, cyanosis), extreme somnolence progressing to stupor or coma, skeletal muscle flaccidity, cold and clammy skin, and sometimes bradycardia and hypotension.

5. Firefighting Measures

Suitable Extinguishing Media: Use extinguishing media for type of surrounding fire.

Unsuitable Extinguishing Media: With small quantities use carbon dioxide extinguisher. For large fires use ample quantities of water with dry chemicals or foam as necessary.

Specific Hazards Arising from the Chemical:

Hazardous Combustion Products: Not determined.

Other Specific Hazards: Closed containers may explode from the heat of fire.

Special Protective Equipment/Precautions for Firefighters: Wear self-contained breathing apparatus and full and protective gear.

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6. Accidental Release Measures

- Personal Precautions:** Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate personal protective equipment and clothing.
- Personal Protective Equipment:** For personal protection see section 8.
- Methods for Cleaning Up:** Dike ahead of liquid spills for later disposal. Absorb with inert material. Recover product and place in an appropriate container for disposal in accordance with local, state and federal regulations.
- Environmental Precautions:** Contain material and prevent release to basements, confined spaces, waterways or soil.
- Reference to Other Sections:** Refer to Sections 8, 12 and 13 for further information.

7. Handling and Storage

- Precautions for Safe Handling:** Handle in accordance with product label and/or product insert information. Handle in accordance with good industrial hygiene and safety practices.
- Conditions for Safe Storage, Including Any Incompatibilities:** Store according to label and/or product insert information. Store away from oxidizers, acids, and bases.
- Specific End Use:** Pharmaceuticals.

8. Exposure Controls/Personal Protection

Occupational Exposure Guidelines:

Common or Chemical Name	Employee Exposure Limits
Promethazine Hydrochloride	0.025 mg/m ³ TWA
Phenylephrine Hydrochloride	Not established.
Codeine Phosphate	200 mcg/m ³ TWA

- Engineering Controls:** Engineering controls should be used as the primary means to control exposures.
- Respiratory Protection:** Where respirators are deemed necessary to reduce or control occupational exposures, use NIOSH-approved respiratory protection and have an effective respirator program in place (applicable U.S. regulation OSHA 29 CFR 1910.134).

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Eyes Protection:	Not required for the normal use of this product. Safety glasses with side shields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.
Hand Protection:	Not required for the normal use of this product. Chemically compatible gloves are recommended. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic non-latex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.
Skin Protection:	Not required for the normal use of this product. Wear protective laboratory coat, apron, or disposable garment when working with large quantities.

9. Physical and Chemical Properties

Physical State/Color:	Liquid/Yellow-orange.
Odor:	Fruit odor.
Odor Threshold:	No data available.
pH:	No data available.
Melting Point:	No data available.
Freezing Point:	No data available.
Boiling Point:	No data available.
Flash Point:	No data available.
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Lower:	No data available.
Flammability Limit - Upper:	No data available.
Vapor Pressure:	No data available.
Vapor Density:	No data available.
Relative Density:	No data available.
Solubility(ies):	Soluble in water.
Partition Coefficient (n-octanol/water):	No data available.
Auto-Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Viscosity:	No data available.

10. Stability and Reactivity

Reactivity:	No data available.
Chemical Stability:	Stable under recommended storage conditions. Avoid sources of ignition.
Possibility of Hazardous Reactions:	No data available.

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Conditions to Avoid (e.g., static discharge, shock, or vibration): No data available.

Incompatible Materials: Oxidizers, acids, bases.

Hazardous Decomposition Products: Does not undergo explosive decomposition.

11. Toxicological Information

Information on the Likely Routes of Exposure:

Inhalation: No data available.
Ingestion: No data available.
Skin Contact: No data available.
Eye Contact: No data available.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics: See Section 4. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Delayed and Immediate Effects of Exposure: No data available.

Acute Toxicity:

Compound	Species	Route	Test Type	Dose
Promethazine HCl	Rat	Oral	LD ₅₀	765 mg/kg
Promethazine HCl	Mouse	Oral	LD ₅₀	255 mg/kg
Phenylephrine HCl	Rat	Oral	LD ₅₀	350 mg/kg
Phenylephrine HCl	Mouse	Oral	LD ₅₀	120 mg/kg
Promethazine HCl	Rat	Oral	LD ₅₀	765 mg/kg
Codeine Phosphate	Rat	Oral	LD ₅₀	266 mg/kg

Acute Toxicity – Dermal: No data available.
Acute Toxicity – Inhalation: No data available.
Corrosivity: No data available.
Dermal Irritation: No data available.
Eye Irritation: No data available.
Sensitization: No data available.
Toxicokinetics/Metabolism: No data available.
Target Organ Effects: No data available.
Reproductive Effects: No data available.
Carcinogenicity: No data available.

National Toxicology Program (NTP): Not considered to be a carcinogen.

International Agency for Research on Cancer (IARC): Not considered to be a carcinogen.

Occupational Safety and Health Administration (OSHA): Not considered to be a carcinogen.

Mutagenicity: No data available.

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Aspiration Hazard: No data available.

12. Ecological Information

Ecotoxicity

Aquatic: No data available.
Terrestrial: No data available.
Persistence and Degradability: No data available.
Bioaccumulative Potential: No data available.
Mobility in Soil: No data available.
Mobility in Environment: No data available.
Other Adverse Effects: No data available.

13. Disposal Considerations

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

14. Transport Information

UN Number: UN3077 (Promethazine HCl)
UN1544 (Codeine Phosphate)

UN Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Promethazine HCl)
Alkaloid salts, solid, n.o.s. (Codeine Phosphate)

Transport Hazard Class(es): 9 (Promethazine HCl)
6.1 (Codeine Phosphate)

Packing Group: III.

Department of Transportation: Regulated as a hazardous material.

International Air Transport Association (IATA): Regulated as a dangerous good.

International Maritime Dangerous Good (IMDG): Regulated as a dangerous good.

15. Regulatory Information

US Federal Regulations:

Toxic Substance Control Act (TSCA): Listed. (Promethazine HCl)
Listed. (Phenylephrine HCl)

CERCLA Hazardous Substance and Reportable Quantity: Not listed.

SARA 313: Not listed.
SARA 302: Not listed.



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State Regulations

Massachusetts:	Not listed.
New Jersey:	Not listed.
Pennsylvania:	Not listed.

California Proposition 65:	Codeine Phosphate contains a chemical known to the State of California to cause birth defects or other reproductive harm.
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16. Other Information

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