



MATERIAL SAFETY DATA SHEET

While we believe the information provided herein is accurate and current, JHP Pharmaceuticals makes no representation or warranties, either explained or implied, and assume no responsibility for any damage or injuries of any kind, which may result from use or reliance upon this information

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| SECTION 1 | MATERIAL IDENTIFICATION |
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PRODUCT NAME: Adrenalin[®] Chloride Solution (epinephrine for injection, USP) **DATE OF ISSUE:** 5/22/08

FORMULA: Mixture **SUPERCEDES:** 3/6/2008 **REVISION:** 3.0

NDC #: 42023-101-01 Adrenalin[®] Chloride Injection (epinephrine for injection, USP), 1mg/mL, 30mL MDV
42023-103-01 Adrenalin[®] Chloride Nasal Solution (epinephrine nasal solution) 1mg/mL, 1oz Bottle
42023-122-25 Adrenalin[®] Chloride Injection (epinephrine for injection, USP), 1mg/mL, 1mL SDV

SYNONYMS: Epinephrine Nasal Solution, USP

MANUFACTURING DIVISION:
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870 Parkdale Road

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| SECTION 2 | INGREDIENT(S) |
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CAS #: 51-43-4 **INGREDIENT NAME:** Epinephrine, USP (Synthetic)

EXPOSURE LIMITS/ GUIDELINES
OSHA PEL: N/A
ACGIH TLV: N/A
OTHER: N/A
LISTED AS CARCINOGEN: No

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| SECTION 3 | HAZARD IDENTIFICATION |
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Therapeutic Class: Sympathomimetic

POTENTIAL HEALTH EFFECTS: Refer to packaging insert. Like other sympathomimetic agents, adverse effects may include fear, anxiety, restlessness, tremors, insomnia, confusion, irritability, headache, palpitations, vasoconstriction, nausea and vomiting.

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| SECTION 4 | FIRST AID INFORMATION |
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INGESTION: Seek medical attention.

EYES: Flush eyes with plenty of water for at least 15 minutes.
Seek medical attention.

SKIN: Wash skin with soap and water for at least

INHALATION: If adverse effects occur, remove to

15 minutes while removing contaminated clothing and shoes. Seek medical attention. uncontaminated area. Seek medical attention.

SECTION 5

FIRE AND EXPLOSION DATA

FLASH POINT AND METHOD: ND

EXTINGUISHING MEDIUM: Carbon Dioxide, Regular Dry Chemical, Regular Foam, Water

SPECIAL FIRE PROCEDURES: Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Use approved self contained breathing apparatus.

HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS: Oxides of Carbon

FIRE HAZARDS: ND

EXPLOSION HAZARDS: NA

SECTION 6

ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Prevent exposure. Contain spill without personal risk. Wipe up or mop up spill and place in appropriate container for disposal.

SECTION 7

HANDLING AND STORAGE

STORE AS STATED IN PRODUCT LABELING.

SECTION 8

SPECIAL PROTECTION INFORMATION

VENTILATION: No special requirements under normal conditions.

EYE PROTECTION: Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

CLOTHING: Wear appropriate chemical resistant clothing.

GLOVES: Wear appropriate chemical resistant gloves.

RESPIRATOR: No respirator is required under normal conditions of use. Ensure compliance with applicable exposure limits.

SECTION 9

PHYSICAL AND CHEMICAL DATA

PHYSICAL STATE: Liquid

SPECIFIC GRAVITY: 1.002 (Water = 1.0)

APPEARANCE: Clear

pH: 2.5 – 4.5 @ 25°C

CHARACTERISTIC ODOR: None

OTHER:

SOLUBILITY: Slightly in water

SECTION 10**STABILITY AND REACTIVITY**

REACTIVITY: Stable and normal temperatures and pressures.

CONDITIONS TO AVOID: Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

SECTION 11**TOXICOLOGY**

TOXICITY INFORMATION:

The following information pertains to the ingredient(s) individually and not to the product as marked. Included will be any data which emphasizes the potential effects that may occur with the occupational handling (by inhalation or by dermal or by ocular contact) of this product.

Epinephrine: Rat I.V. LD₅₀: 0.15 mg/kg; Mouse I.V. LD₅₀: 0.217 mg/kg; Rat Oral LD₁₀: 30 mg/kg;

(Refer to package insert for further information)

SECTION 12**ECOLOGICAL INFORMATION**

ND

SECTION 13**DISPOSAL**

Dispose of in accordance with all applicable regulations.

SECTION 14**TRANSPORTATION INFORMATION**

PROPER SHIPPING NAME: Non-Regulated

ID/UN NUMBER: NA

CONTAINER SPECIFICATION: NA

HAZARD CLASS: NA

LABEL: NA

N/A – NOT APPLICABLE

ND – NO DATA FOUND

The information provided in this Material Safety Data Sheet has been compiled from our experience and the data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary. We reserve the right to revise the Material Safety Data Sheets from time to time as new information becomes available. The user has the responsibility to contact the company to make sure the sheet is the latest one issued.