

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Chlorothiazide Sodium for Injection, USP Product Name:

Product Use/Restriction: Diuretic and antihypertensive Manufacturer Name: Fresenius Kabi USA, LLC Address: Three Corporate Drive Lake Zurich, Illinois 60047

(847) 550-2300 General Phone Number: (888) 386-1300 Customer Service Phone Number:

Health Issues Information: (800) 551-7176 SDS Creation Date: July 28, 2009 SDS Revision Date: June 10, 2015

(M)SDS Format:

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Pictograms:



Signal Word: DANGER

Respiratory sensitisation. Category 1. Skin Sensitization. Category 1. GHS Class:

Reproductive toxicity. Effects on or via lactation.

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

May cause harm to breast-fed children.

Precautionary Statements: Obtain special instructions before use.

Obtain special instructions before use.

Do not breathe dust/fume/gas/mist/vapours/spray.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid contact during pregnancy and while nursing.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

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.

IF exposed or concerned: Get medical advice/attention.

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. Harmful. May cause sensitization by inhalation and skin contact.

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

Potential Health Effects:

Eve: Contact with eyes may cause irritation.

Skin: May cause skin irritation.

Inhalation: May cause irritation of respiratory tract.

Ingestion: May cause irritation.

Signs/Symptoms: Other symptoms may include throat, anorexia, muscle spasms, and weakness. Exposure to high

concentrations can depress CNS function. Exposure can cause: Dermatitis. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach pains, vomiting, diarrhea, nausea, dizziness, and headaches.

Aggravation of Pre-Existing Conditions:

Individuals with hypersensitivity to any component of this product.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name CAS# **Ingredient Percent** EC Num.

Chlorothiazide sodium equivalent to chlorothiazide 58-94-6 0.5 g/ vial

Chlorothiazide Sodium for Injection, USP Revision: 06/10/2015

Fresenius Kabi USA, LLC

Sodium Hydroxide 1310-73-2 As needed to adjust pH

Mannitol 69-65-8 0.25 g/ vial

SECTION 4: FIRST AID MEASURES

Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of Eye Contact:

the eyes by separating the eyelids with fingers. Get immediate medical attention

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. Skin Contact:

If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention. Inhalation:

Ingestion: If conscious, flush mouth out with water immediately. Call a physician or poison control center

For Adverse Event Information, please call (800) 551-7176.

immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

Other First Aid:

Flash Point: Not established. Flash Point Method: Not established Auto Ignition Temperature: Not established. Lower Flammable/Explosive Limit: Not established Upper Flammable/Explosive Limit: Not established

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, Fire Fighting Instructions:

contain fire run-off water

Extinguishing Media: 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.

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent)

and full protective gear

Hazardous Combustion Byproducts

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 weigh hydrocarbon compounds may be released in small quantities depending upon specific conditions of

combustion

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personnel Precautions: 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.

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Methods for containment: Contain spills with an inert absorbent material such as soil, sand or oil dry.

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. Methods for cleanup:

SECTION 7: HANDLING and STORAGE

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. Handling

Store between 2 to 25°C (36 to 77°F). Storage:

Work Practices: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety

Hygiene Practices: Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

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.

Eye/Face Protection: Chemical splash goggles. Wear a face shield also when splash hazard exist.

Skin Protection Description: Protective laboratory coat, apron, or disposable garment recommended

Hand Protection Description: Wear appropriate protective gloves. Consult glove manufacturer's data for permeability data.

Nitrile rubber or natural rubber gloves are recommended Chlorothiazide Sodium for Injection, USP

Respiratory Protection:

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 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 (http://www.cdc.gov/niosh/npptl/topics/respirators/) for a list of respirator types and approved suppliers.

Other Protective: Consult with local procedures for selection, training, inspection and maintenance of the personal

protective equipment.

EXPOSURE GUIDELINES

Percent Volatile:

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Physical State: Lyophilized powder.

Color White Odor: Odorless. **Boiling Point:** Not established. Not established. Melting Point: Solubility: Not established. Not established. Vapor Density: Vapor Pressure: Not established.

9 - 10 Molecular Formula: Mixture

Flash Point: Not established. Flash Point Method: Not established. Auto Ignition Temperature: Not established.

SECTION 10: STABILITY and REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Not established.

Hazardous Polymerization: Not reported.

Conditions to Avoid: No conditions contributing to instability are known to exist for normal handling of this product.

SECTION 11: TOXICOLOGICAL INFORMATION

Chlorothiazide sodium equivalent to chlorothiazide :

RTECS Number:

Ingestion: Oral - Mouse LD50: 8 gm/kg [Details of toxic effects not reported other than lethal dose value Oral - Rat LD50: 10 gm/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Other Toxicological Information:

Intravenous. - Mouse LD50: 940 mg/kg [Peripheral Nerve and Sensation - Spastic paralysis with or without sensory change Behavioral - Convulsions or effect on seizure threshold Lungs, Thorax, or Respiration - Other changes]

Intravenous. - Rat LD50: 200 mg/kg [Details of toxic effects not reported other than lethal dose value]
Intraperitoneal. - Rat LD50: 1386 mg/kg [Details of toxic effects not reported other than lethal dose

Intraperitoneal. - Mouse LD50: 1400 mg/kg [Peripheral Nerve and Sensation - Spastic paralysis with or without sensory change Behavioral - Convulsions or effect on seizure threshold Lungs, Thorax, or Respiration - Other changes]

Sodium Hydroxide:

RTECS Number: WB4900000

Eye - Rabbit Standard Draize test.: 400 ug

Eye - Rabbit Standard Draize test.: 50 ug/24H (RTECS)

Administration onto the skin - Rabbit Standard Draize test.: 500 mg/24H Skin:

Ingestion: Oral - Rabbit LDLo: 500 mg/kg [Details of toxic effects not reported other than lethal dose value]

Mannitol:

OP2060000 RTECS Number:

Ingestion: Oral - Rat LD50: 13500 mg/kg [Details of toxic effects not reported other than lethal dose value]

Oral - Mouse LD50: 22 gm/kg [Behavioral - Somnolence (general depressed activity); Gastrointestinal - Ulceration or bleeding from small intestine]

Other Toxicological Information: Intravenous. - Rat LD50: 9690 mg/kg [Details of toxic effects not reported other than lethal dose

Intravenous. - Mouse LD50: 7470 mg/kg [Details of toxic effects not reported other than lethal dose value]

Intraperitoneal. - Mouse LD50: 14 gm/kg [Details of toxic effects not reported other than lethal dose value]

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

$\underline{\textbf{Chlorothiazide sodium equivalent to chlorothiazide}}:$

Canada DSL: Listed

Sodium Hydroxide:

TSCA Inventory Status: Listed
Canada DSL: Listed

Mannitol:

TSCA Inventory Status: Listed
Canada DSL: Listed

SECTION 16: ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 2
HMIS Fire Hazard: 1
HMIS Reactivity: 0
HMIS Personal Protection: X

SDS Creation Date: July 28, 2009
SDS Revision Date: June 10, 2015

SDS Format:

Disclaimer:

The information contained herein pertains to this material. It is the responsibility of each individual party to determine for themselves the proper means of handling and using these materials based on their purpose and intended use. Fresenius-Kabi assumes no liability resulting from the use of or reliance upon the information contained in this material safety data sheet. This material safety data sheet does not constitute the guaranty or specifications of the product.

 $\label{lem:copyright} \textbf{Copyright} \\ \textcircled{0 1996-2015 Actio Corporation. All Rights Reserved.}$

Chlorothiazide Sodium for Injection, USP Revision: 06/10/2015