

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Terbutaline Sulfate Injection, USP Product Name:

Manufacturer Name: Fresenius Kabi USA, LLC Three Corporate Drive Address: Lake Zurich, Illinois 60047

General Phone Number: (847) 550-2300

(888) 386-1300 Customer Service Phone (800) 551-7176 Health Issues Information: SDS Creation Date: January 08, 2009

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Pictograms:

SDS Revision Date:

Signal Word: DANGER.

GHS Class: Respiratory sensitisation. category 1.

June 03, 2024

Reproductive toxicity. Category 2. Skin Sensitization. category 1.

Reproductive toxicity. Effects on or via lactation.

Hazard Statements: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Suspected of damaging fertility or the unborn child. May cause an allergic skin reaction.

May cause harm to breast-fed children.

Precautionary Statements:

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
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.

Store locked up.

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:

Signs/Symptoms:

Eve: Contact with eyes may cause irritation.

Side effects from therapeutic doses include: Dizziness, drowsiness, rapid or pounding heartbeat, headache, sweating, nausea, vomiting, nervousness, tremor, and weakness. Symptoms of overdose may include the above as well as seizures, angina, hypertension, hypotension, changes in heart

rhythm, dry mouth, palpitation, fatique, and insomnia.

Aggravation of Pre-Existing

Conditions:

Individuals with cardiac and respiratory conditions. Individuals with a history of hypersensitivity to

terbutaline sulfate.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS# | Ingredient Percent | EC Num. |
|---------------------|------------|---------------------|---------|
| Terbutaline Sulfate | 23031-32-5 | 1 mg/mL | |
| Water for Injection | 7732-18-5 | Quantity Sufficient | |

SECTION 4: FIRST AID MEASURES

Eye Contact: 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.

Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing Skin Contact: contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Seek immediate medical attention

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

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

Other First Aid: For Adverse Event Information, please call (800) 551-7176.

SECTION 5: FIRE FIGHTING MEASURES

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.

Fire Fighting Instructions: 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.

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

combustion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal 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

Handling: 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

Store at controlled room temperature 20 to 25°C (68 to 77°F). [See USP Controlled Room Storage:

Temperature 1. Protect from light.

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

shower

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

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

General ventilation is sufficient if this product is being used in a controlled medical setting (clinic, **Engineering Controls:**

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.

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 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: Liquid solution.

Boiling Point: Approximately 100°C Not established. Melting Point: Soluble, in water. Solubility: Not established. Vapor Density: Not established. Vapor Pressure:

3.0 to 5.0 Molecular Formula: Mixture Molecular Weight: 548.65

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

SECTION 10: STABILITY and REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Not established.

Hazardous Polymerization: Not reported.

Incompatible Materials: Avoid storage near oxidizers and water reactive materials.

SECTION 11: TOXICOLOGICAL INFORMATION

Terbutaline Sulfate:

Acute Toxicity: LD50 SC Mature Rat: 165 mg/kg

LD50 SC Young Rat: 2000 mg/kg LD50 IV Dog: 116 mg/kg LD50 IP Rat: 220 mg/kg

<u>Terbutaline Sulfate</u>:

RTECS Number: DN900000

Ingestion: Oral - Rat LD50: 8700 mg/kg [Details of toxic effects not reported other than lethal dose value]

Oral - Mouse LD50: 205 mg/kg [Autonomic Nervous System - Sympathomimetic]

Other Toxicological Information:

Intravenous. - Rat LD50: 69 mg/kg [Details of toxic effects not reported other than lethal dose value] Intravenous. - Mouse LD50: 36 mg/kg [Details of toxic effects not reported other than lethal dose value]

Intravenous. - Rabbit LD50: 110 mg/kg [Details of toxic effects not reported other than lethal dose value] Intravenous. - Rat TDLo: 11.4 ug/kg [Cardiac - pulse rate; Vascular - BP lowering not characterized in

autonomic section; Reproductive - Maternal Effects - uterus, cervix, vagina]
Subcutaneous - Rat LD50: 130 mg/kg [Details of toxic effects not reported other than lethal dose

Subcutaneous - Mouse LD50: 260 mg/kg [Details of toxic effects not reported other than lethal dose value]

 $Subcutaneous - Rat\ TDLo:\ 6500\ mg/kg/30D\ (intermittent)\ [Cardiac - changes\ in\ heart\ weight;\ Blood-line of the control of the contro$ changes in serum composition (e.g. TP, bilirubin, cholesterol); Blood - changes in erythrocyte (RBC)

Subcutaneous - Rat TDLo: 40 mg/kg/4D (intermittent) [Brain and Coverings - other degenerative changes; Endocrine - differential effect of sex or castration on observed toxicity; Biochemical Metabolism (Intermediary) - other proteins]

Subcutaneous - Rat TDLo: 30 mg/kg [Reproductive - Specific Developmental Abnormalities - Central

Nervous System]
Subcutaneous - Rat TDLo: 120 mg/kg [Reproductive - Paternal Effects - prostate, seminal vesicle,

Subcutaneous - Rat TDLo: 120 mg/kg [Reproductive - Paternal Effects - prostate, seminal vesicle, Cowper's gland, accessory glands]
Subcutaneous - Rat TDLo: 30 mg/kg [Reproductive - Effects on Newborn - growth statistics (e.g.%, reduced weight gain); Reproductive - Effects on Newborn - physical]
Subcutaneous - Rat TDLo: 30 mg/kg [Reproductive - Effects on Embryo or Fetus - fetotoxicity (except death, e.g., stunted fetus); Reproductive - Specific Developmental Abnormalities - respiratory system]
Subcutaneous - Mouse TDLo: 192 mg/kg [Reproductive - Fertility - pre-implantation mortality (e.g. reduction in number of implants per female; total number of implants per corpora lutea); Reproductive

Fertility - litter size (e.g. number fetuses per litter; measured before birth)]

Subcutaneous - Mouse TDLo: 24 mg/kg [Reproductive - Effects on Embryo or Fetus - fetotoxicity (except death, e.g., stunted fetus)]

Subcutaneous - Guinea pig TDLo: 20 gm/kg [Reproductive - Specific Developmental Abnormalities - cardiovascular (circulatory) system]

Intraperitoneal. - Rat LD50: 220 mg/kg [Details of toxic effects not reported other than lethal dose value]

Intraperitoneal. - Mouse LD50: 130 mg/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

EINECS Number: 245-386-3

SECTION 16: ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 2 HMIS Fire Hazard: 0 HMIS Reactivity: 0 HMIS Personal Protection: C

SDS Creation Date: January 08, 2009 SDS Revision Date: June 03, 2024

SDS Revision Notes: Overall review of SDS - no changes to formulation. Added HMIS ratings for Health,

Flammability, Reactivity, and Personal Protective Equipment (PPE).

The information contained herein pertains to this material. It is the responsibility of each individual Disclaimer:

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.

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