

## SAFETY DATA SHEET

### SECTION 1 : IDENTIFICATION

**Product Name:** Meropenem for Injection, USP  
**Manufacturer Name:** Fresenius Kabi USA, LLC  
**Address:** Three Corporate Drive  
 Lake Zurich, Illinois 60047  
**General Phone Number:** (847) 550-2300  
**Customer Service Phone Number:** (888) 386-1300  
**Health Issues Information:** (800) 551-7176  
**SDS Creation Date:** November 03, 2011  
**SDS Revision Date:** April 25, 2025

### SECTION 2 : HAZARD(S) IDENTIFICATION

GHS Pictograms:



Signal Word:

DANGER.

GHS Class:

Respiratory sensitisation. category 1.  
 Skin Sensitization. category 1.  
 Reproductive toxicity. Effects on or via lactation.

Hazard Statements:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 May cause an allergic skin reaction.  
 May cause harm to breast-fed children.

Precautionary Statements:

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:

Causes serious eye irritation. May cause sensitization by inhalation and skin contact.  
 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:

Eye:

Causes serious eye irritation.

Skin:

May cause an allergic skin reaction.

Inhalation:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Ingestion:

May cause irritation.

Signs/Symptoms:

Serious and occasionally fatal hypersensitivity (anaphylactic) reactions have been reported in patients receiving therapy with  $\beta$ -lactams. These reactions are more likely to occur in individuals with a history of sensitivity to multiple allergens.  
 Meropenem may cause side effects. Tell your health care provider if any of these symptoms are severe or do not go away: upset stomach, diarrhea, stomach pain, indigestion, constipation, dry mouth, headache.  
 If you experience any of these symptoms, immediately notify your contact person on healthcare: epileptic discharge, fatigue and drowsiness, dizziness.

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.
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Meropenem Tri-Hydrate

119478-56-7

500 mg & 1 g / vial

Sodium carbonate

497-19-8

45.1 mg & 90.2 mg / vial

## SECTION 4 : FIRST AID MEASURES

<b>Eye Contact:</b>	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.
<b>Skin Contact:</b>	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.
<b>Inhalation:</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
<b>Ingestion:</b>	If conscious, flush mouth out with water immediately. Call a physician or poison control center immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
<b>Other First Aid:</b>	For Adverse Event Information, please call (800) 551-7176.

## SECTION 5 : FIRE FIGHTING MEASURES

<b>Flash Point:</b>	333.2 °C.
<b>Flash Point Method:</b>	Not established.
<b>Auto Ignition Temperature:</b>	400 - 480 °C.
<b>Lower Flammable/Explosive Limit:</b>	Not established.
<b>Upper Flammable/Explosive Limit:</b>	Not established.
<b>Fire Fighting Instructions:</b>	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.
<b>Extinguishing Media:</b>	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.
<b>Protective Equipment:</b>	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Hazardous Combustion Byproducts:</b>	During the combustion in a range from 30 °C to 900 °C after 23 minutes it shows the presence of ammonia, methane, CO <sub>2</sub> (carbon dioxide), CO (carbon monoxide), carbonyl sulfide, pyrrole.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	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.
<b>Environmental Precautions:</b>	Avoid runoff into storm sewers, ditches, and waterways.
<b>Methods for containment:</b>	This material will settle out of the air.
<b>Methods for cleanup:</b>	Clean up promptly by sweeping or vacuum. Avoid dust formation. Pick or scoop up material and put into a suitable container for proper disposal.

## SECTION 7 : HANDLING and STORAGE

<b>Handling:</b>	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.
<b>Storage:</b>	Store between 2 to 25°C (36 to 77°F).
<b>Work Practices:</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
<b>Hygiene Practices:</b>	Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

## SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

<b>Engineering Controls:</b>	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.
<b>Eye/Face Protection:</b>	Chemical splash goggles. Wear a face shield also when splash hazard exist.
<b>Skin Protection Description:</b>	Protective laboratory coat, apron, or disposable garment recommended.

<b>Hand Protection Description:</b>	Wear appropriate protective gloves. Consult glove manufacturer's data for permeability data. Nitrile rubber or natural rubber gloves are recommended.
<b>Respiratory Protection:</b>	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 ( <a href="http://www.cdc.gov/niosh/npptl/topics/respirators/">http://www.cdc.gov/niosh/npptl/topics/respirators/</a> ) for a list of respirator types and approved suppliers.
<b>Other Protective:</b>	Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

## EXPOSURE GUIDELINES

### SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

<b>Physical State:</b>	Crystalline powder.
<b>Color:</b>	White to yellow
<b>Odor:</b>	Not established.
<b>Boiling Point:</b>	627.4° C at 760 mmHg
<b>Melting Point:</b>	Not established.
<b>Solubility:</b>	Not established.
<b>Vapor Density:</b>	Not established.
<b>Vapor Pressure:</b>	Not established.
<b>Percent Volatile:</b>	Not established.
<b>pH:</b>	7.3 - 8.3 (5% solution)
<b>Molecular Formula:</b>	Mixture
<b>Flash Point:</b>	333.2 °C.
<b>Flash Point Method:</b>	Not established.
<b>Auto Ignition Temperature:</b>	400 - 480 °C.
<b>Explosive Properties:</b>	Pmax = 9.6 bar; max pressure rise (dP / dt) max = 380 bar / s; max Kst value= 103 bar m / s (belonging to the class St1).

### SECTION 10 : STABILITY and REACTIVITY

<b>Chemical Stability:</b>	Stable under normal temperatures and pressures.
<b>Hazardous Polymerization:</b>	Not reported.
<b>Conditions to Avoid:</b>	Protect from moisture. Avoid static discharges. Keep away from open flames, direct lighting, heat and auto-ignition sources.

### SECTION 11 : TOXICOLOGICAL INFORMATION

#### **Meropenem Tri-Hydrate :**

<b>RTECS Number:</b>	CL5446507
<b>Other Toxicological Information:</b>	Intravenous. - Rat TDLo: 200 mg/kg [Behavioral - Tremor]

### SECTION 12 : ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	No ecotoxicity data was found for the product.
<b>Environmental Stability:</b>	No environmental information found for this product.

### SECTION 13 : DISPOSAL CONSIDERATIONS

<b>Waste Disposal:</b>	Dispose of in accordance with Local, State, Federal and Provincial regulations.
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### SECTION 14 : TRANSPORT INFORMATION

<b>DOT Shipping Name:</b>	Not Regulated.
<b>DOT UN Number:</b>	Not Regulated.

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## SECTION 15 : REGULATORY INFORMATION

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### Meropenem Tri-Hydrate :

Canada DSL: Listed

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## SECTION 16 : ADDITIONAL INFORMATION

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### HMIS Ratings:

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

SDS Creation Date: November 03, 2011  
SDS Revision Date: April 25, 2025  
SDS Revision Notes: Overall SDS review - no changes to formulation.

**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.

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