

Meropenem for Injection, USP

#### 1 IDENTIFICATION

**Product Identifier(s):** 

Product Name: Meropenem for Injection, USP

Chemical Name: (1) 1-Azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid, 3-[[5-

[(dimethylamino)carbonyl]-3-pyrrolidinyl]thio]-6-(1-hydroxyethyl)-4-methyl-7-oxo-, trihydrate, [4R-[ $3(3S^*,5S^*)$ ,4a,5b, $6b(R^*)$ ]]-; (2) (4R,5S,6S)-3-[[(3S,5S)-5-(Dimethylcarbamoyl)-3-pyrrolidinyl]thio]-6-[(1R)-1-

hydroxyethyl]-4-methyl-7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-

carboxylic acid, trihydrate.

Chemical Family: Beta-lactam

**Distributed By:** WG Critical Care, LLC.

120 Route 17 North

Suite 115

Paramus, NJ 07652 USA

**Recommended Use:** Antibacterial

**Uses Advised Against:** This is a pharmaceutical product designed to be administered by

a licensed health care professional. Should any person while using this product observe any adverse health effects, they

should seek medical treatment.

Product Type: Pharmaceutical

**Container Information:** Vial

**Customer Service Phone** 

+1-888-493-0861

Number:

**Emergency Phone Number:** +1-866-562-4708 (ProPharma)

## 2 HAZARDS INDENTIFICATION

Classification of Substance orRESPIRATORY SENSITIZATIONCategory 1Mixture:SKIN SENSITIZATIONCategory 1

EYE IRRITATION Category 2
ACUTE AQUATIC TOXICITY Category 1
CHRONIC AQUATIC TOXICITY Category 1

**Label Elements:** 

Signal Word: DANGER

WARNING



**Hazard Statements:** H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

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H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting

effects.

**Precautionary Statements:** 

**Prevention:** P261 Avoid breathing dust.

P264 + P265 Wash hands thoroughly after handling. Do not

touch eyes.

P273 Avoid release to the environment.

P280 Wear protective gloves.
P284 Wear respiratory protection.

**Response:** P302+P352 If on skin: Wash with plenty of soap and

water.

P333+P313 If skin irritation or rash occurs: Get medical

advice/attention.

P321 Specific treatment (see information on this

label).

P362+P364 Take off contaminated clothing and wash it

before reuse.

P305+P351+P338 If in eyes: Rinse cautiously with water for

several minutes. Remove contact lenses if present and easy to do - continue rinsing. If eye irritation persists: Get medical help.

P337+P317 If eye irritation persists: Get medical help. P304+P340 If inhaled: Remove person to fresh air and

keep comfortable for breathing.

P342+P316 If experiencing respiratory symptoms: Get

emergency medical help immediately.

P391 Collect spillage.

**Disposal:** P501 Dispose of contents and container in

accordance with all local, regional, national

and international regulations.

**Hazards Not Otherwise** 

Classified:

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. When heated it may

emit toxic fumes.

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

IngredientWeight %CAS No.Meropenem Trihydrate~85%119478-56-7Sodium Carbonate~15%497-19-8

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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#### 4 FIRST AID MEASURES

**GENERAL:** Remove from exposure. Remove contaminated clothing. Persons

developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention. If person is not breathing give artificial respiration. If breathing is difficult give oxygen.

Obtain medical attention.

**INHALATION:** Move to fresh air and monitor breathing. Obtain medical

attention for symptoms of difficulty in breathing and wheeziness,

however minor.

EYES: Irrigate with eyewash solution or clean water, holding the eyelids

apart, for at least 15 minutes. Obtain medical attention.

**SKIN:** Take off all contaminated clothing immediately. After contact

with skin, wash immediately with mild soap and water. Obtain

medical attention in case of irritation.

**INGESTION:** Wash out mouth with water and give 200-300ml of water to

drink. Do not attempt to give any solid or liquid by mouth If the exposed subject is unconscious or semi-unconscious. Do not induce vomiting as a First-Aid measure. Obtain medical

attention.

Most important symptoms and effects; both acute and delayed

**OVERVIEW:** Refer to Section 2 and Section 11.

Indication of any immediate

medical attention and special

treatment needed:

Symptomatic treatment and supportive therapy as indicated. For

further details, consult the prescribing information.

#### 5 FIRE FIGHTING MEASURES

**Extinguishing Media:** Water spray, foam, dry powder or CO<sub>2</sub>. Avoid high pressure

media which could cause the formation of a potentially explosive

dust-air mixture.

Special hazards arising from the

substance or mixture:

Advice for Fire-Fighters:

If involved in a fire, it may burn and emit noxious and toxic fumes. Avoid breathing dust / fume / gas / mist / vapors / spray. A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Prevent fire

extinguishing water from contaminating surface water or the

ground water system.

#### 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure suitable personal protection during removal of spillages. See Section 8. Ensure adequate ventilation. In case of accident, avoid breathing dust from damaged or crushed container. Avoid contact with eyes and skin.

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**Environmental precautions** Prevent entry into drains, sewers or watercourses. Collect

spillage.

Methods and material for containment and cleaning up Avoid dust generation. Transfer spilled vials to a suitable container for disposal. Wash the spillage area with water only after collection of material. Avoid use of oxidizing agents to wash the affected areas. Avoid release to the environment. See section

13.

### HANDLING AND STORAGE

Precautions for safe handling No special precautions are necessary when handling packed

> product. In case of accident, avoid contact with skin and eyes. Do not breathe dust. Minimize dust generation and accumulation. Keep container tightly closed. Keep away from drains. Store

Conditions for safe storage, including any incompatibilities

Specific end use(s)

below 25°C. Avoid exposure to heat sources. Avoid humidity. See prescribing information.

## **EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Occupational Exposure**

Limit:

CAS No. **Ingredient** 

119478-56-7 Meropenem

Trihydrate

Value  $300 \mu g / m^3$  **Control Parameters** 

The exposure should be kept as low as possible below this level to protect against respiratory sensilization.

**EXPOSURE CONTROLS** 

**Respiratory:** Use a self-contained breathing apparatus if a risk assessment indicates

this is necessary.

Use goggles to protect against direct contact with the substance Eyes:

products if a risk assessment indicates this is necessary

Skin: Use impervious clothing to protect against direct contact with the

> product products if a risk assessment indicates this is necessary. Use impervious protective gloves to protect against direct contact with the product. If the product is dissolved or wetted use a glove material that

is resistant to the solvent/liquid.

**Engineering Controls:** The specific controls will depend on local circumstances and should be

> based on the risk assessment. Appropriate controls to reduce exposure may include engineering controls, for example ventilation, procedural

controls and the use of personal protection equipment.

Prevent entry into drains, sewers or water courses. See Section 6 for

environmental precautions.

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**Other Work Practices:** 

The recommended personal protective equipment (PPE) is based on preventing the potential adverse health effects from exposure to the active pharmaceutical ingredient (API). The risk of exposure to the API in the formulation/product needs to be taken into consideration. Decisions about whether the use of personal protective equipment (PPE) is appropriate as part of the control strategy should be based on the workplace risk assessment and should take account of local legislative requirements for selection and use. There are multiple factors that will affect the specific requirements such as amount and concentration of the material, duration of exposure, frequency of exposure, external environmental conditions, the task, the user etc. The information below should not be used in isolation and should be considered in the context of the workplace risk assessment on a case by case basis.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Solid, crystalline	APPEARANCE:	White to light
	powder		yellow powder
UPPER FLAMMABILITY LIMIT:	No data available	LOWER	No data available
		FLAMMABILITY	
		LIMIT:	
EXPLOSIVE LIMIT:	40 g/m <sup>3</sup>	ODOR:	No data available
VAPOR PRESSURE:	No data available	ODOR THRESHOLD:	No data available
VAPOR DENSITY:	No data available	pH:	7.3-8.3 (5%
			solution)
RELATIVE DENSITY:	No data available	MELTING POINT:	No data available
FREEZING POINT:	No data available	SOLUBILITY:	No data available
INITIAL BOILING POINT:	627.4°C at 760	<b>BOILING RANGE:</b>	No data available
	mmHg		
FLASH POINT:	333.2°C	<b>EVAPORATION RATE:</b>	No data available
FLAMMABILITY:	No data available	PARTITION	-1.25
		COEFFICIENT (N-	
		OCTANOL / WATER)	
AUTO-IGNITION	Layer (LIT): No	DECOMPOSITION	No data available
TEMPERATURE:	ignition up to 400°C.	TEMPERATURE:	
	Cloud (MIT): No		
	ignition up to 480°C.		
VISCOSITY:	No data available		

## 10 STABILITY AND REACTIVITY

**Reactivity:** No data available.

**Chemical Stability:** Stable under normal circumstances.

Possibility of Hazardous reactions: No data available.

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**Conditions to avoid:** Protect from moisture. Store in a dry place. Avoid

accumulation of electrostatic charge. Connect to the circuit ground. Keep away from open flames, heat and direct lighting.

**Incompatible Materials:** Avoid exposure to oxidizing agents.

Hazardous decomposition products: See section 5, "Special hazards arising from the substance or

mixture:".

## 11 TOXICOLOGICAL INFORMATION

#### **ACUTE TOXICITY – CEFAZOLIN SODIUM**

Measurement	Species	Dose	Route	Toxic Effects
LD50	No data	No data available	Intraperitoneal	No data available
	available			
LD50	No data	No data available	Intravenous	No data available
	available			
LD50	No data	No data available	Oral	No data available
	available			
LD50	No data	No data available	Subcutaneous	No data available
	available			
LD50	No data	No data available	Inhalation	No data available
	available			

Note: As a result of the physical presentation of the product, the risk to health is expected to be very low under normal conditions of handling and use. The following health hazard assessment is based on a consideration of the composition of this product.

Likely routes of exposure:	Inhalation, ingestion, eye contact, dermal contact.
Symptoms of exposure:	Eye, skin, and respiratory irritation may occur.
<b>Delayed, immediate,</b> May cause sensitization by inhalation and dermal contact.	
chronic effects from short-	
and long-term exposure:	
Carcinogen status:	No data available.

## 12 ECOLOGICAL INFORMATION

## **Toxicity**

Product/Ingredient Name	Result	Species	Exposure
Meropenem Trihydrate	EC50 > 900 mg/L	Daphnia magna	48 hours
	EC50 > 100 mg/L	Algae –	72 hours
		Pseudokirchneriella	
		subcapitata	
	EC50 0.026 mg/L	Blue-green Algae –	72 hours
		Microcystis	
		aeruginosa	

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Persistence and degradability: Bioaccumulation potential:

Soil mobility:

Other adverse events:

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Not rapidly biodegradable.

The substance has low potential for

bioaccumulation.

The substance has low mobility in soil (pH 7.7, Koc 220). The substance has moderate mobility in soil (pH 5.8, Koc 1121). The substance has high mobility in

soil (pH 5.0, Koc 21724).

No data available.

## 13 **DISPOSAL CONSIDERATIONS**

13 DISPUSAL CONSIL	LIATIONS						
Waste treatment methods	The generation of waste should be avoided or minimized						
	wherever possible. All waste should be characterized. Do not						
	discharge into the sewer system or the environment. Disposal of						
	this product, solutions and any by-products should comply with						
	the requirements of environmental protection and waste disposal						
	legislation and any regional local authority requirements. Dispo						
	of surplus and non-recyclable products via a licensed waste						
	disposal contractor.						
Contaminated packaging	Waste packaging should be recycled. Incineration or landfill						
	should only be considered when recycling is not feasible. This						
	material and its container must be disposed of in a safe way. Care						
	should be taken when handling empty containers that have not						
	been cleaned or rinsed out. Empty containers or liners may retain						
	some product residues. Avoid dispersal of spilled material and						
	runoff and contact with soil, waterways, drains and sewers.						

## **14 TRANSPORT INFORMATION**

#### **REGULATORY ORGANIZATIONS:**

**DOT:** Not Regulated

ICAO / IATA: Not Regulated

**IMO:** Not Regulated

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#### 15 **REGULATORY INFORMATION**

Below is selected regulatory information chosen primarily for possible WG Critical Care use. This section is not a complete analysis or reference to all applicable regulatory information. Please consider all applicable laws and regulations for your city / state / country.

#### **US Regulations**

TSCA – No
CERCLA Reportable Quantity – No
SARA 302 Extremely Hazardous Substances Reportable Quantity – No
SARA 313 – No
OSHA Substance Specific – No
EU EINECS / ELINCS List – 207-838-8
Prop 65 – No

#### **16 OTHER INFORMATION**

As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered with the good faith belief that it is accurate. THIS MATERIAL SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PUROPOSE). In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.

#### **Revision History**

Version 1.0 – New Format

Version 2.0 – Updated format and information in sections 1-13, 15-16

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