

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

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

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

Number:

Health Issues Information: (800) 551-7176 SDS Creation Date: December 02, 2010 SDS Revision Date: April 15, 2022

SECTION 2: HAZARD(S) IDENTIFICATION

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. Irritant. Emergency Overview:

Reproductive effects.

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

Potential Health Effects:

Eye: Contact with eyes may cause irritation.

Skin: May cause skin irritation.

Inhalation: May cause irritation of respiratory tract.

Ingestion: May cause irritation.

Signs/Symptoms: The active ingredient, pemetrexed, is a folic acid antimetabolite, this class of compounds is known to cause developmental effects. Effects of overexposure to pemetrexed disodium may include bone

marrow suppression resulting in decreased blood cell counts, inflammation of mucous membranes,

skin rash, fatigue, fetal effects, and reproductive tissue changes.

Target Organs: Eyes. Skin. Reproductive system. Blood. Bone Marrow.

Aggravation of Pre-Existing

Conditions:

Inhalation:

None generally recognized.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent	EC Num.
Pemetrexed Disodium	150399-23-8	50 %	
Mannitol	69-65-8	50 %	

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

Inaestion: 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.

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

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: Not established.

Not established. Flash Point Method: 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 Fire Fighting Instructions:

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.

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

Hazardous Combustion

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

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.

Methods for cleanup: 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.

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). Storage:

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: rotective 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

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Physical State: Lyophilized powder.

Color: White Odor: Odorless. **Boiling Point:** Not established. Meltina Point: Not established.

Solubility: Soluble, in water, Not established. Vapor Density: Vapor Pressure: Not established. Percent Volatile: Not established. Not established. pH:

Molecular Formula:

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.

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

Pemetrexed Disodium:

RTECS Number: LZ9950150

Skin: LD50 (rabbit) > 1,000 mg/kgIngestion: LD50 (rat) > 500 mg/kg

Mutagenicity: Clastogenic in the in vivo micronucleus assay in the mouse. Results in genetic toxicity assays (in vitro):

Negative.

Reproductive Toxicity: Intravenous. - Mouse TDLo: 2 mg/kg [Reproductive - Effects on Embryo or Fetus - fetotoxicity (except

death, e.g., stunted fetus)]

Administration to pregnant mice resulted in decreased fetal weight, incomplete ossification of some skeletal structures, and cleft palate. Male reproductive toxicity characterized by reduced fertility,

hypospermia, and testicular atrophy was observed when given to male mice.

Decreased testes weights with decreased sperm production and decreased red blood cells were reported

in mice with intraperitoneal exposure for 6 weeks. Intravenous exposure in dogs for up to 6 months resulted in mortality, decreased white blood cell counts, mild anemia, and intestinal lesions.

Mannitol:

RTECS Number: OP2060000

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

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

SECTION 12: ECOLOGICAL INFORMATION

Pemetrexed Disodium:

Bioaccumulation: Bioconcentration factor (BCF): < 4.6

Effect of Material On Aquatic Life: LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): > 1,212.7 mg/l

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

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: December 02, 2010
SDS Revision Date: April 15, 2022

SDS Revision Notes: Company logo; GHS format.

Disclaimer:

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