

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Irinotecan Hydrochloride Injection Product Name:

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

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

Number:

SDS Revision Date:

Health Issues Information: (800) 551-7176 SDS Creation Date: January 15, 2011 June 01, 2015

SECTION 2: HAZARD(S) IDENTIFICATION

Signal Word: Not applicable. Hazard Statements: Not applicable. Precautionary Statements: Not applicable.

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:

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: Potential adverse reactions from prescribed doses and overdoses are described in the package insert.

Occupational exposure has not been fully investigated

Aggravation of Pre-Existing Conditions:

No medical conditions are known to be aggravated by accidental exposure.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent	EC Num.
Lactic acid	50-21-5	0.9 mg/mL	
Sorbitol-NF Powder	50-70-4	45 mg/mL	
Irinotecan Hydrochloride	100286-90-6	20 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 contaminated clothing and shoes. Get medical attention if irritation develops or persists. Skin Contact:

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

personnel. Seek immediate medical attention.

Ingestion:

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 Vigilance: (905) 770-3711.

Irinotecan Hydrochloride Injection Fresenius Kabi USA, LLC Revision: 06/01/2015 Page 1 of 4

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 Not established Upper Flammable/Explosive Limit:

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

Use extinguishing measures that are appropriate to local circumstances and the surrounding

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

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 Methods for cleanup:

removal, flush spill area with soap and water to remove trace residue.

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:

Storage: Store at 25°C (77°F); excursions permitted to 15 to 30°C (59 to 86°F). [See USP Controlled Room

Temperature]. Protect from light. Retain vial in carton until time of use

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: $We ar appropriate\ protective\ gloves.\ Consult\ glove\ manufacturer's\ data\ for\ permeability\ data.$

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

Ingredient	Guideline OSHA	Guideline A CGI H	Quebec Canada	Ontario Canada	Alberta Canada
Lactic acid	Not established.	Not established.	Not established.	Not established.	Not established.
Sorbitol-NF Powder	Not established.	Not established.	Not established.	Not established.	Not established.
Irinotecan Hydrochloride	Not established.	Not established.	Not established.	Not established.	Not established.
Water for Injection	Not established.	Not established.	Not established.	Not established.	Not established.
Ingredient	British Columbia Canada				
Lactic acid	Not established.				

Sorbitol-NF Powder	Not established.		
Irinotecan Hydrochloride	Not established.		
Water for Injection	Not established.		

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Physical State: Liquid. Color: Pale yellow **Boiling Point:** Not established. Melting Point: Not established. Solubility: Soluble. in water. Vapor Density: Not established. Vapor Pressure: Not established. Percent Volatile: Not established.

3.0 - 3.8 pH: Molecular Formula: Mixture Molecular Weight: 677.19

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.

Hazardous Polymerization: Not reported. Conditions to Avoid: Exposure to light.

SECTION 11: TOXICOLOGICAL INFORMATION

Reproductive Toxicity: Pregnancy Category D: Irinotecan may cause fetal harm when administered to pregnant women.

Irinotecan was teratogenic in rats and rabbits. There are no adequate and well-controlled studies in

pregnant women.

Lactic acid:

Eye - Rabbit Standard Draize test.: 750 ug (RTECS) Eye:

Skin: Administration onto the skin - Rabbit LD50: >2 gm/kg [Details of toxic effects not reported other than

lethal dose value1

Administration onto the skin - Rabbit Standard Draize test.: 5 mg/24H [severe]
Administration onto the skin - Rabbit Standard Draize test.: 100 mg/24H [Moderate]
Administration onto the skin - Rat TDLo: 57590 mg/kg/13W [(Intermittent) Brain and Coverings Changes in brain weight Kidney/Ureter/Bladder - Changes in bladder weight Blood - Other changes]

Oral - Rat LD50: 3543 mg/kg [Details of toxic effects not reported other than lethal dose value] Oral - Mouse LD50: 4875 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS) Ingestion:

Sorbitol-NF Powder:

Oral - Rat LD50: 15900 mg/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Mouse LD50: 17800 mg/kg [Details of toxic effects not reported other than lethal dose value] Ingestion:

(RTECS)

Other Toxicological Information: Intravenous. - Rat LD50: 7100 mg/kg [Details of toxic effects not reported other than lethal dose

value1

Intravenous. - Mouse LD50: 7100 mg/kg [Details of toxic effects not reported other than lethal dose

value]

Intraperitoneal. - Mouse LD50: 15 gm/kg [Details of toxic effects not reported other than lethal dose value] Subcutaneous - Rat LD50: 29600 mg/kg [Details of toxic effects not reported other than lethal dose

Subcutaneous - Mouse LD50: 24 gm/kg [Details of toxic effects not reported other than lethal dose

value] (RTECS)

Irinotecan Hydrochloride:

LD50: Oral Rat 867 mg/kg Skin:

LD50: Oral Rat 1026 mg/kg

Oral - Rat LD50: 867 mg/kg [Sense Organs and Special Senses (Eye) - effect, not otherwise specified Inaestion: Behavioral - Convulsions or effect on seizure threshold Lungs, Thorax, or Respiration - Other changes]
Oral - Mouse LD50: 765 mg/kg [Tumorigenic - Active as anti-cancer agent] (RTECS)

Other Toxicological Information:

Intravenous. - Rat LD50: 83600 ug/kg [Tumorigenic - Active as anti-cancer agent] Intravenous. - Mouse LD50: 132 mg/kg [Sense Organs and Special Senses (Eye) - effect, no otherwise specified Behavioral - Convulsions or effect on seizure threshold Lungs, Thorax, or

Respiration - Other changes]
Intraperitoneal. - Mouse LD50: 177 mg/kg [Tumorigenic - Active as anti-cancer agent] (RTECS)

Irinotecan Hydrochloride Injection Fresenius Kabi USA, LLC Revision: 06/01/2015 Page 3 of 4

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

Canada WHMIS: Controlled - Class: D2B Toxic

Lactic acid:

Canada IDL: Identified under the Canadian Hazardous Products Act Ingredient Disclosure List: 0.1%.921(100)

SECTION 16: ADDITIONAL INFORMATION

HMIS Ratings:

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

SDS Creation Date: January 15, 2011
SDS Revision Date: June 01, 2015

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.

Copyright© 1996-2015 Actio Corporation. All Rights Reserved.

Irinotecan Hydrochloride Injection Revision: 06/01/2015

Fresenius Kabi USA, LLC Page 4 of 4