

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Kabiven**

Product Use/Restriction: For intravenous infusion into a central vein as a source of calories, protein and essential fatty acids for patients requiring parenteral nutrition in four sizes 1026 ml, 1540 ml, 2053 ml, and 2566 ml.
 This product is supplied in a three chamber bag: Chamber 1 contains Dextrose solution for fluid replenishment and caloric supply.
 The Amino Acid solution with Electrolytes, in chamber 2 comprises essential and nonessential amino acids provided with electrolytes.
 Chamber 3 contains Intralipid® 20% (a 20% Intravenous Fat Emulsion), prepared for intravenous administration as a source of calories and essential fatty acids.

Manufacturer Name: Fresenius Kabi AB (Sweden)

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Uppsala, Sweden

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Distributor 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

HMIS	
Health Hazard	0
Fire Hazard	0
Reactivity	0
Personal Protection	A

SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent	EC Num.
Water for Injection	7732-18-5	quantity sufficient	
L-Alanine	56-41-7	4.7 grams/1000 mL	
L-Arginine	74-79-3	3.3 grams/1000 mL	
L-Aspartic acid	56-84-8	0.99 grams/1000 mL	
L-Glutamic acid	617-65-2	1.6 grams/1000 mL	
Glycine (Aminoacetic acid)	56-40-6	2.3 grams/1000 mL	
L-Histidine	71-00-1	2 grams/1000 mL	
L-Isoleucine	73-32-5	1.6 grams/1000 mL	
L-Leucine	61-90-5	2.3 grams/1000 mL	
L-Lysine	56-87-1	2.6 grams/1000 mL	
L-Methionine	63-68-3	1.6 grams/1000 mL	
L-Phenylalanine	63-91-2	2.3 grams/1000 mL	
L-Proline	147-85-3	2 grams/1000 mL	
L-Serine	56-45-1	1.3 grams/1000 mL	
L-Threonine	72-19-5	1.6 grams/1000 mL	
L-Tryptophan	73-22-3	0.55 grams/1000 mL	
L-Tyrosine	60-18-4	0.07 grams/1000 mL	
L-Valine	72-18-4	2.1 grams/1000 mL	
Calcium chloride	10043-52-4	0.22 grams/1000 mL	
Sodium glycerophosphate (anhydrous)	1334-74-3	1.5 grams/1000 mL	
Magnesium sulphate	10034-99-8	0.47 grams/1000 mL	
Potassium chloride	7447-40-7	1.7 grams/1000 mL	
Sodium acetate	127-09-3	1.4 grams/1000 mL	
Glucose	50-99-7	97 grams/1000 mL	

Soybean oil	8001-22-7	39 grams/1000 mL
Soybean Oil USP	N/A	3.9 grams/100 ml
Amino acids, USP	N/A	3.31 grams/100 ml
Dextrose	50-99-7	9.8 grams/100 ml

SECTION 3 : HAZARDS IDENTIFICATION

Emergency Overview:	Non hazardous.
Route of Exposure:	Inhalation Ingestion Eye contact Skin Absorption. Injection.
Potential Health Effects:	No effects expected.
Signs/Symptoms:	No effects expected.
Aggravation of Pre-Existing Conditions:	No effects expected.

SECTION 4 : FIRST AID MEASURES

Eye Contact:	No unusual emergency conditions are expected from this product.
Skin Contact:	No unusual emergency conditions are expected from this product.
Inhalation:	No unusual emergency conditions are expected from this product.
Ingestion:	No unusual emergency conditions are expected from this product.

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:	Not applicable.
Extinguishing Media:	Not applicable.
Protective Equipment:	Not applicable.
Hazardous Combustion Byproducts:	Not applicable.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Not applicable.
Environmental Precautions:	Not applicable.
Methods for containment:	Contain spill using inert absorbent material.
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:	Not applicable.
Storage:	Store at controlled room temperature 20 to 25°C (68 to 77°F). [See USP Controlled Room Temperature]. Do not freeze.
Work Practices:	Not applicable.
Hygiene Practices:	Not applicable.

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls:	Not applicable. (General ventilation is sufficient if this product is being used in a controlled art studio setting for its sole intended photo-shooting purpose for the Marketing Catalog. NOTE: This product demo is a dummy for product catalog photo-shooting only; thus it is not a real pharmaceutical injectable product. It is not intended for real parenteral (injection) purposes).
Eye/Face Protection:	Not applicable.
Skin Protection Description:	Not applicable.

Hand Protection Description: Not applicable.
Respiratory Protection: Not applicable.

EXPOSURE GUIDELINES

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

Physical State: Liquid.
Color: Clear
Boiling Point: Not established.
Melting Point: Not established.
Solubility: Soluble. in water.
Vapor Density: Not established.
Vapor Pressure: Not established.
Percent Volatile: Not established.
pH: 5.6
Molecular Formula: Mixture
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: Protect from freezing.

SECTION 11 : TOXICOLOGICAL INFORMATION

Eye: Non hazardous.
Skin: Non hazardous.
Inhalation: Non hazardous.
Ingestion: Non hazardous.

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity: This material is not expected to cause harm to animals, plants or fish.

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal: This material is not expected to be a characteristic hazardous waste under RCRA.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name: Not Regulated.
DOT UN Number: Not Regulated.

SECTION 15 : REGULATORY INFORMATION

TSCA Inventory Status: Not Regulated.
Canada DSL: Not Regulated.

SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 0
HMIS Fire Hazard: 0
HMIS Reactivity: 0
HMIS Personal Protection: A

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