INTERNATIONAL MEDICATION SYSTEMS, LIMITED
1886 SANTA ANITA AVENUE, SOUTH EL MONTE, CALIFORNIA 91733
AREA CODE (800) 423-4136, (909) 980-9484 (INTERNATIONAL)
FAX (626) 459-5255

SAFETY DATA SHEET

SECTION I. IDENTIFICATION	
Identity/Material Name	Dextrose Injection USP, 50%
Synonyms	D-glucose monohydrate
Stock Number	3302
NDC Number	76329-3302-1
Unit Size	25 g / 50 mL (in unit-use packages containing a Luer-Jet prefilled syringe)
Intended Use	Rx Only. 50% Dextrose Injection is indicated in the treatment of insulin hypoglycemia (hyperinsulinemia or insulin shock) to restore blood glucose levels. The solution is also indicated, after dilution, for intravenous infusion as a source of carbohydrate calories in patients whose oral intake is restricted or inadequate to maintain nutritional requirements. Slow infusion of hypertonic solutions is essential to ensure proper utilization of dextrose and avoid production of hyperglycemia.
Company Information	
Manufacture	International Medication Systems, Limited (IMS) 1886 Santa Anita Avenue, South El Monte, California 91733 Tel (800) 423-4136 Fax (626) 459-5255
Emergency Number	(800) 423-4136 (US Domestic), (909) 980-9484 (International)

SECTION II. HAZARD(S) IDENTIFICATION	
Emergency Overview	Liquid Clear, colorless Odorless The intravenous administration of this solution can cause fluid and/or solute overloading resulting in dilution of serum electrolyte concentrations, overhydration, congested states of pulmonary edema. Solutions containing dextrose should be used with caution in patients with known subclinical or overt diabetes mellitus.
Statement of Hazard	50% Dextrose Injection is hypertonic and may cause phlebitis and thrombosis at the site of injection.
Potential Health Effect	Hyperosmolar syndrome, febrile response, infection at the site of injection, venous thrombosis or phlebitis extending from the site of injection, extravasation and hypervolemia. If an adverse reaction does occur, discontinue the infusion, evaluate the patient, institute appropriate therapeutic countermeasures and save the remainder of the fluid for examination if deemed necessary.
Hazard Class	Not Applicable

Hazard Category	GHS Classification	Not applicable
	Classification according to EC Directive 1272/2008	Not applicable
	Classification according to EC Directives 64/548/EEC (substances) or 1999/45/EC (mixtures)	Not applicable

SECTION III. COMPOSITION/INFORMATION ON INGREDIENTS		
Active Ingredient	Dextrose Monohydrate USP	
	Approximate % by weight: 50%	RTECS No. LZ6600000
	EC Number: 200-075-1	CAS #: 50-99-7
Inactive Ingredients	Sodium Hydroxide NF Hydrochloric Acid NF Water for Injection USP	
Chemical Formula	$C_6H_{12}O_6 \bullet H_2O$	

SECTION IV. FIRST-AID MEASURES	
Eye Contact	Flush eyes immediately with copious amounts of water. Seek medical attention if deemed necessary.
Skin Contact	Avoid direct skin contact. Wash affected skin surfaces immediately with mild soap and copious amounts of water
Inhalation	Remove from source of exposure. Seek medical attention if needed or if signs of toxicity occur.
Ingestion	Remove from source of exposure. Seek medical attention if needed or if signs of toxicity occur.
Effect and Treatment of Overdosage	In the event of overhydration or solute overload during therapy, re-evaluate the patient and institute appropriate corrective measures. Significant hyperglycemia and possible hyperosmolar syndrome may result from too rapid administration. The physician should be ware of the symptoms of hyperosmolar syndrome, such as mental confusion and loss of consciousness, especially in patients with chronic uremia and those with known carbohydrate intolerance. To minimize hyperglycemia and consequent glycosuria, it is desirable to monitor blood and urine glucose and if necessary, add insulin.

SECTION V. FIRE-FIGHTING MEASURES		
Extinguishing Media		Water, carbon dioxide, dry chemical or foam.
Special Fire-Fighting Precautions		Unknown
Flammability		
Fire/Explosion Hazards		Unknown
Hazardous Combustion Products		Unknown
Flash Point		Unknown
Auto-Ignition Temperature		Unknown
Flammable Limits	LEL	Not applicable
	UEL	Not applicable

SECTION VI. ACCIDENTAL RELEASE MEASURES	
Personal Precautions	Improper engaging may cause glass breakage and subsequent injury.
Environmental Precautions	If safe to do so, prevent further leakage or spillage. Avoid discharge into drains, water courses, or on the ground.
Steps to be Taken if Released or Spilled	Absorb onto paper. Wash spill site with copious amounts of water.

SECTION VII. HANDLING AND STORAGE	
Handling	No special handling required under conditions of normal product use.
Storage	No special storage required for hazard control. For product protection, follow storage recommendations noted on the product case label, the primary container label, or the product insert.

SECTION VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Exposure Limits	Unknown
Personal Protective Equipment (PPE)	
Eye Protection	Safety glasses with side shields. Use of goggles or full face protection may be required based on hazard, potential for contact, or level of exposure. Consult your site safety staff for guidance.
Skin Protection	Adequate skin protection recommended including gloves. Lab coats or additional precaution may be required based on procedure or level of exposure. Consult your site safety staff for guidance.
Respiratory Protection	Respiratory protection is not needed during normal product use.
Engineering Controls	The health hazard risks of handling this material are dependent on many factors, including physical form, duration and frequency of process or task, and effectiveness of engineering controls. Site-specific risk assessments should be conducted to determine the feasibility and the appropriateness of all exposure control measures. Exposure controls for normal operating or routine procedures follow a tiered strategy. Engineering controls are the preferred means of long-term or permanent exposure control. If engineering controls are not feasible, appropriate use of personal protective equipment (PPE) may be considered as alternative control measures. Exposure controls for non-routine operations must be evaluated and addressed as part of the site-specific risk assessment.

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance and Odor	Clear, colorless, odorless solution
Physical State	Liquid
pH	3.2-6.5
Molecular Weight	Unknown
Melting Point(°C)	Not applicable
Freezing Point(°C)	Unknown
Boiling Point(°C)	Unknown

Evaporation Rate	Water solvent will slowly evaporate
Vapor Pressure	Unknown
Vapor Density	Unknown
Relative Density	Unknown
Solubility(ies)	Miscible with water
Partition coefficient	Unknown
Decomposition Temperature	Unknown
Viscosity	Not applicable
Flammability	See **Section V: Fire Fighting Measures** for flammability/explosivity information.

SECTION X. STABILITY AND REACTIVITY	
Stability/Reactivity	Stable under ordinary conditions of use and storage
Hazardous Reactions	Not determined.
Incompatibilities/ Conditions to Avoid	Avoid freezing and temperatures outside of 15°C to 30°C. Do not use if a precipitate is present.
Hazardous Decomposition Products	Unknown
Hazardous Polymerization	Not anticipated to occur with this product.

SECTION XI. TOXICOLOGICAL INFORMATION	
The data presented below is for this product or for a structurally similar product.	
Acute Toxicity	Not available
Repeat Dose Toxicity Data	
Subchronic/ Chronic Toxicity	Not available
Reproductive/ Developmental Toxicity	Teratogenic Effect – Pregnancy Category C: Safety for use during pregnancy has not been established. Dextrose should be used only when clearly needed and when the potential benefits outweigh the unknown potential hazards to the fetus.
Mutagenicity/ Genotoxicity	Not Applicable
Carcinogenicity	Not Applicable

SECTION XII. ECOLOGICAL INFORMATION	
Ecotoxicity Data	Not determined for this product
Environmental Data	Not determined for this product

SECTION XIII. DISPOSAL CONSIDERATIONS	
Method of Disposal	Approved chemical waste incineration or approved aqueous discharge to municipal or on-site wastewater treatment systems.
Container Handling and Disposal	Dispose of container and unused contents in accordance with federal, state and local regulations.

SECTION XIV. TRANSPORT INFORMATION	
This material is not subject to the transportation regulation of USDOT, EUADR, IATA or IMDG/IMO	
SECTION XV. REGULATORY INFORMATION	
US State Regulations	Check state requirements for ingredient listing.
RCRA Status	Not listed
U.S. OSHA Classification	Not Applicable
TSCA Listing	Listed
GHS Classification	Not applicable
Symbol	Not Applicable
Response	See First Aid measures **(Section IV)**
SECTION XVI. OTHER INFORMATION	
Pharmaceutical Use	This product is Rx Only. Please follow instructions in the package insert.
Abbreviations	
ADR	Agreement on Dangerous Goods by Road
CAS	Chemical Abstracts Service Number
DOT	US Department of Transportation Regulations
IATA	International Air Transport Association
IMO	International Maritime Organization
LD50	Dosage producing 50% mortality
LEL	Lower Exposure Limit
OSHA PEL	US Occupational Safety and Health Administration – Permissible Exposure Limit
RCRA	US EPA, Resource Conservation and Recovery Act
RTECS	Registry of Toxic Effects of Chemical Substances
TSCA	Toxic Substance Control Act
UEL	Upper Exposure Limit
Revision Date	09/29/21
Supersedes Date	05/17/18

Rx Only. Refer to package insert for additional information.

The information contained herein is believed to be complete and accurate. However, it is the user's responsibility to determine the suitability of the information for their particular purpose. The company assumes no additional liability or responsibility resulting from the usage of, or reliance on this information.