

# SAFETY DATA SHEET



Revision Date: 4.7.2020

Version 1.0

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## 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND THE COMPANY / UNDERTAKING

### Product Identifier

**Material Name:** 5% Dextrose in Lactated Ringer's Injection, USP  
**Trade Name:** 5% Dextrose in Lactated Ringer's Injection, USP  
**Synonyms:** None  
**Chemical Family:** Mixture

### Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

**Intended Use:** Pharmaceutical product

### Details of the supplier of the Safety Data Sheet:

ICU Medical, Inc.  
275 North Field Drive  
Lake Forest, IL 60045  
(844) 654-7780

### Emergency Telephone Number:

**Phone:** 1-(800) 241-4002, Option 6  
**CHEMTREC (24 hours):** 1-800-424-9300  
**email:** MedInfo\_US@icumed.onmicrosoft.com

## 2. HAZARD IDENTIFICATION

### Classification of the Substance or Mixture

**GHS – Classification** Not classified as hazardous

### Label Elements

**Signal Word:** Not classified  
**Hazard Statements:** Not classified in accordance with international standards for workplace safety

**Other Hazards:** An Occupational Exposure Value has been established for one or more of the ingredients (See Section 8)

**Note:** This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases. Your needs may vary depending on the potential for exposure in your workplace.

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	EU EINECS / ELINCS List	GHS Classification	%
Sodium Lactate	72-17-3	200-772-0	Eye Irrit. 2 (H320)	< 0.6
Sodium Chloride	7647-14-5	231-598-3	Not Listed	<0.6
Potassium Chloride	7447-40-7	231-211-8	Not Listed	<0.05
Calcium Chloride	10035-04-8	Not Listed	Eye Irrit. (H319)	<0.05
Dextrose, monohydrate	77938-63-7	Not Listed	Not Listed	5
Water for injection	7732-18-5	231-791-2	Not Listed	>93

Additional Information: \* Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has been withheld as a trade secret.

For the full text of the CLP / GHS abbreviations mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

### Description of First Aid Measures

**Eye Contact:** Flush with water while holding eyelids open for at least 15 minutes. If irritation occurs or persists, obtain medical attention.

**Skin Contact:** If irritation occurs, wash exposed area with soap and water, remove contaminated clothing and obtain medical assistance.

**Ingestion:** Never give anything by mouth to an unconscious person. Wash mouth out with water and obtain medical attention immediately. Do not induce vomiting unless directed by medical personnel.

**Inhalation:** Not an expected route of exposure.

### Most Important Symptoms and Effects, Both Acute and Delayed

**Symptoms and Effects of Exposure:** No data available

**Medical Conditions Aggravated by Exposure:** None Known

### Indication of the Immediate Medical Attention and Special Treatment Needed

**Notes to Physician:** None

## 5. FIRE FIGHTING MEASURES

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**Extinguishing Media:** Extinguish fires with CO<sub>2</sub>, dry chemical, foam, or water.

## Special Hazards Arising from the Substance or Mixture

### Hazardous Combustion

**Products:** Formation of toxic gases is possible during heating or fire. May include oxides of carbon.

**Fire / Explosion Hazards:** Not applicable

### Advice for Firefighters

During all firefighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

### Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

### Methods and Material for Containment and Cleaning Up

#### Measures for Cleaning /

**Collecting:** Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill area thoroughly.

#### Additional Consideration for

**Large Spills:** Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions:** Store as directed by product packaging

**Incompatible Materials:** None

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Specific End Use(s): Pharmaceutical drug product

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Controls

**Engineering Controls:** Engineering controls should be used as the primary means to control exposures.

### Personal Protective

**Equipment:** Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).

**Eye Protection:** Wear safety glasses or goggles if eye contact is possible.

**Skin Protection:** Impervious protective clothing is recommended if skin contact with drug product is possible and for bulk processing conditions.  
Impervious gloves (e.g. nitrile, etc.) are recommended if skin contact with drug product is possible for bulk processing operations.

**Respiratory protection:** None required under normal conditions of use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid	<b>Color:</b>	Colorless
<b>Odor:</b>	None	<b>Odor Threshold:</b>	No data available
<b>Molecular Formula:</b>	Mixture	<b>Molecular Weight:</b>	Mixture

<b>pH</b>	4.0 - 6.5
<b>Melting/Freezing Point (°C):</b>	No data available
<b>Partition Coefficient:</b>	(Method, pH, Endpoint, Value)

<b>Decomposition Temperature (°C):</b>	No data available
<b>Evaporation Rate (gram/s):</b>	No data available
<b>Vapor Pressure (kPa):</b>	No data available
<b>Vapor Density (g/ml):</b>	No data available
<b>Specific Gravity:</b>	1.02 at 25 deg. C
<b>Viscosity:</b>	1.26 cps at 25 deg. C

### Flammability:

<b>Autoignition Temperature (Solid)(°C):</b>	No data available
<b>Flammability (solids):</b>	No data available
<b>Flash Point (Liquid)(°C):</b>	No data available
<b>Upper Explosive Limits (Liquid)(% by vol.)</b>	No data available
<b>Lower Explosive Limits (Liquid) (% by vol.)</b>	No data available

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Stable under normal conditions of use
<b>Possibility of Hazardous Reactions:</b>	
<b>Oxidizing Properties:</b>	No data available
<b>Conditions to Avoid:</b>	None
<b>Incompatible Materials:</b>	As a precautionary measure, keep away from strong oxidizers
<b>Hazardous Decomposition:</b>	No data available
<b>Products:</b>	

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## 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

#### General Information:

The information included in this section describes the potential hazards of the individual ingredients.

#### Acute Toxicity: (Species, Route, End Point, Dose)

##### Sodium Lactate

Rat Oral LD50 >90 mL/kg

##### Sodium Chloride

Rat Oral LD50 3000 mg/kg

Mouse Oral LD50 4000 mg/kg

##### Potassium Chloride

Rat Oral LD50 2600 mg/kg

##### Calcium Chloride

Rat Oral LD50 1000 mg/kg

Mouse Oral LD50 1940 mg/kg

#### Acute Toxicity Comments:

A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable at the highest dose used in the test.

## 12. TOXICOLOGICAL INFORMATION

#### Environmental Overview:

Releases to the environment should be avoided. No acute toxicity to aquatic organisms is expected.

#### Toxicity:

No data available

#### Persistence and Degradability:

No data available

#### Bio-accumulative Potential:

No data available

#### Mobility in Soil:

No data available

## 13. DISPOSAL CONSIDERATIONS

#### Waste Treatment Methods:

Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

## 14. TRANSPORT INFORMATION

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The following refers to all modes of transportation unless specified below.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

## 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

#### Sodium Lactate

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory – United States TSCA	Present
Australia (AICS)	Present
EU EINECS/ELINCS List	200-772-0

#### Sodium Chloride

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory – United States TSCA	Present
Australia (AICS)	Present
EU EINECS/ELINCS List	231-598-3

#### Potassium Chloride

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory – United States TSCA	Present
Australia (AICS)	Present
EU EINECS/ELINCS List	231-211-8

#### Dextrose, monohydrate

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory – United States TSCA	Present
Australia (AICS)	Present
EU EINECS/ELINCS List	Not Listed

#### Calcium Chloride

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory – United States TSCA	Present
Australia (AICS)	Present
EU EINECS/ELINCS List	Not Listed

#### Water for injection

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory – United States TSCA	Present
Australia (AICS):	Present
EU EINECS / ELINCS List	231-791-2

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## 16. OTHER INFORMATION

### Text of CLP/GHS Classification abbreviations mentioned in Section 3

Serious eye damage/eye irritation – Cat. 2A; H319 and H320 – Causes serious eye irritation

<b>Data Sources:</b>	Publicly available toxicity information.
<b>Reasons for Revision:</b>	Company/Undertaking.
<b>Development date:</b>	January 31, 2020
<b>Prepared by:</b>	ICU Medical Environment, Health & Safety Department

ICU Medical believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

**END OF SAFETY DATA SHEET**