

Product Name: Lactated Ringers Injection

Issued: 07/26/2000



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer Name and Address: Abbott Laboratories
Specialty Products Division
1401 N. Sheridan Rd.
North Chicago, IL 60064-4000

Customer Service Telephone: 1-888-299-7416 or 1-847-935-6919
Emergency Telephone: CHEMTREC: 1-800-424-9300

Product Name: Lactated Ringers Injection
Synonyms: Lactated Ringer's Injection

List Number: 7953

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percent	OSHA PEL	ACGIH TLV	AIHA WEEL	Abbott EEL	Skin Notation
Calcium Chloride 10043-52-4	0.02	Not Listed	Not Listed	Not Applicable	Not Applicable	None
Potassium Chloride 7447-40-7	0.03	Not Listed	Not Listed	Not Applicable	Not Applicable	None
Sodium Chloride 7647-14-5	0.5	Not Listed	Not Listed	Not Applicable	Not Applicable	None
Sodium Lactate 72-17-3	0.5	Not Listed	Not Listed	Not Applicable	Not Applicable	None
Water 7732-18-5	99	Not Listed	Not Listed	Not Applicable	Not Applicable	None

Notes: OSHA PEL: US Occupational Safety and Health Administration- Permissible Exposure Limit.
ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value.
AIHA WEEL: American Industrial Hygiene Association - Workplace Environmental Exposure Level.
Abbott EEL: Abbott Laboratories Employee Exposure Limit.
TWA: 8-hour Time Weighted Average.
STEL: 15-minute Short Term Exposure Limit.
C: Ceiling Limit.

3. HAZARDS IDENTIFICATION

Emergency Overview:
Clear, colorless solution.

Product Name: Lactated Ringers Injection
Issued: 07/26/2000

Odorless.
Not toxic by ingestion, inhalation or dermal contact.

Routes of Exposure:

Oral: No
Dermal: No
Inhalation: No

Hazard Information:

Ingestion Rating: None
Skin Absorption Rating: None
Inhalation Rating: None
Corrosiveness Rating: None
Skin Contact Rating: None
Skin Sensitization Rating: Not determined.
Eye Contact Rating: None
Target Organs: Not determined.

Carcinogenicity Rating:

Ingredients	Percent	OSHA:	NTP:	IARC:	ACGIH:
Calcium Chloride 10043-52-4	0.02	Not Listed	Not Listed	Not Listed	Not Listed
Potassium Chloride 7447-40-7	0.03	Not Listed	Not Listed	Not Listed	Not Listed
Sodium Chloride 7647-14-5	0.5	Not Listed	Not Listed	Not Listed	Not Listed
Sodium Lactate 72-17-3	0.5	Not Listed	Not Listed	Not Listed	Not Listed
Water 7732-18-5	99	Not Listed	Not Listed	Not Listed	Not Listed

NFPA Rating: Health: 0 Fire: 0 Reactivity: 0

Signs and Symptoms: None known from occupational exposure.

**Medical Conditions
Aggravated by Exposure:** None known from occupational exposure.

4. FIRST AID MEASURES

Eye Contact: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

Skin Contact: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

Product Name: Lactated Ringers Injection
Issued: 07/26/2000

Inhalation: Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

Ingestion: Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

5. FIRE FIGHTING MEASURES

FLAMMABILITY:

Autoignition Temp. (°C): Not determined.

FIRE-FIGHTING INFORMATION:

Suitable Extinguishing Media: Use appropriate medium for the underlying cause of the fire.

Special Protective Equipment: Wear protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Methods of Cleaning and Collecting: Recover product. Place into appropriate container for disposal. Clean area with suitable cleaning materials. Dispose of as directed in Section 13.

Personal Precautions: Use personal protective equipment identified in Section 8.

Environmental Precautions: Not determined.

7. HANDLING AND STORAGE

Handling: No special handling required.

Storage : Store at controlled room temperature of 15-30 deg. C (59-86 deg. F).

Special Precautions: Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: No special provisions are required under normal product use conditions.

Respiratory Protection: None required.

Product Name: Lactated Ringers Injection
Issued: 07/26/2000

Eyes: Eye protection not required during typical product use conditions.

Gloves: None required.

Other Personal Protection Data: Not determined.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless solution.
Odor: Not determined.
Boiling Point @ 760 mm Hg (°C): Not determined.
Melting/Freezing Point (°C): Not determined.
Vapor Pressure (mm Hg) Not determined.
Bulk Density at 20°C: Not determined.
Solubility: Freely soluble in: water.
Specific Gravity: Not determined.
pH: Not determined.
Viscosity (centipoise): Not determined.

10. STABILITY AND REACTIVITY

Chemical Stability: Not determined.

Self-Heating Tendency: Not determined.

Materials to Avoid: Not determined.

Hazardous Decomposition Products: Not determined.

Hazardous Polymerization: Not determined.

Conditions to Avoid: Not determined.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity - Oral: Data for component (s) given below.

Ingredients	Percent	Acute Test	Value	Units	Species
Calcium Chloride 10043-52-4	0.02	LD50 =	1000-1940	mg/kg	Rats Mice Rabbits
Potassium Chloride 7447-40-7	0.03	LD50 =	1500-2600	mg/kg	Rats Guinea Pigs Mice
Sodium Chloride 7647-14-5	0.5	LD50 >	4000	mg/kg	Rats Mice Rabbits

Product Name: Lactated Ringers Injection
Issued: 07/26/2000

Acute Toxicity - Dermal: Data for component (s) given below.

Ingredients	Percent	Acute Test	Value	Units	Species
Calcium Chloride 10043-52-4	0.02	LD50 >	5000	mg/kg	Rabbits
Sodium Chloride 7647-14-5	0.5	LD50 >	10,000	mg/kg	Rabbits

Acute Toxicity - Inhalation: Data for component (s) given below.

Ingredients	Percent	Test	Value	Units	Species
Sodium Chloride 7647-14-5	0.5	LC 50 >	42	mg/L	Rats

Corrosivity: Not Corrosive.

Dermal Irritation: Presumed to be non-irritating to skin.

Eye Irritation: Presumed not to be irritating to the eyes.

Sensitization: Not determined.

Target Organ Effects: Not determined.

Reproductive Effects: Not determined.

Carcinogenicity: Not determined.

Notes:

1. ALD: Approximate lethal dosage
2. LC50: Concentration in air that produces 50% mortality
3. LD50: Oral or dermal dosage that produces 50% mortality

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: Not determined.

Biodegradation: Not determined.

General Notes: Not determined.

Product Name: Lactated Ringers Injection
Issued: 07/26/2000

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT:
Status: Not Regulated.

ICAO/IATA:
Status: Not Regulated.

IMDG:
Status: Not Regulated.

TDG (Canada):
Status: Not Regulated.

15. REGULATORY INFORMATION

SARA 313 Information	Percent	SARA 313 Chemical:	SARA EHS RQ (lbs):	SARA Extremely Hazardous RQ (lbs):
Ingredients				
Calcium Chloride 10043-52-4	0.02	No	Not Applicable	Not applicable
Potassium Chloride 7447-40-7	0.03	No	Not Applicable	Not applicable
Sodium Chloride 7647-14-5	0.5	No	Not Applicable	Not applicable
Sodium Lactate 72-17-3	0.5	No	Not Applicable	Not applicable
Water 7732-18-5	99	No	Not Applicable	Not applicable

SARA 311/312 Hazard Categories:

Immediate Health: No
Delayed Health: No
Fire: No
Sudden Pressure: No
Reactivity: No

TSCA Inventory Status: Exempt.

CERCLA Status: Not determined.

RCRA Status: Not determined.

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Issued: 07/26/2000

Proposition 65 Status: Does not contain chemicals known to the state of California to cause cancer or reproductive harm.

EC HAZARD CLASSIFICATION:

Category of Danger: None

Indication of Danger : None.

ICH CLASSIFICATION: Not determined.

CANADIAN REGULATIONS:

Canadian Inventory: Not determined.
Canadian NDSL: Not determined.
WHMIS Hazard Class: Not determined.

Notes:

1. SARA = Superfund Amendments and the Reauthorization Act.
2. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act.
3. FIFRA = Federal Insecticide, Fungicide and Rodenticide Act.
4. TSCA = Toxic Substances Control Act.
5. EC = European Community.
6. WHMIS = Canadian Workplace Hazardous Materials Information System.
7. ICH = International Committee for Harmonization.

16. OTHER INFORMATION

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