SAFETY DATA SHEET

Issuing Date: 16-Oct-2019 **Revision Date:** 23-Mar-2022

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

SDS Number: 1199809
Product Name: Heparin Sodium and 0.9% Sodium Chloride Injection

Other means of identification

Product Code(s): 2B0953, 2B0944, FKB0953G, AHB0953U, NDC 0338-0431-03, NDC 0338-0433-04, NDC 0338-9556-20, NDC 0338-0424-18
Synonyms: None

Recommended use of the chemical and restrictions on use

Product Use: Pharmaceutical.
Product Type: Regulated Prescription Drug
Uses advised against No information available

Details of the supplier of the safety data sheet

BAXTER HEALTHCARE CORPORATION
1 BAXTER PARKWAY
DEERFIELD, ILLINOIS 60015
US: (800) 933-0303
Canada: (855)-584-1368

Emergency telephone number

Verisk 3E Global Incident Response Hotline +1 760 476 3962; Access Code 335625

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label Elements

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health

Hazards not otherwise classified (HNOC)

Other Information

Unknown Acute Toxicity 1 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Heparin Sodium	9041-08-1	<0.1
Sodium Chloride	7647-14-5	<1
Citric Acid Anhydrous	77-92-9	<0.1

Dibasic Sodium Phosphate	7558-79-4	<1
Water	7732-18-5	>95

4. FIRST AID MEASURES

Description of first aid measures

General Advice Treat symptomatically and supportively.

Eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops.

Skin contact: In case of contact, immediately flush skin with plenty of water. Get medical attention if irritation develops.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Get medical attention.

Most important symptoms and effects, both acute and delayed
No information available.

Indication of any immediate medical attention and special treatment needed
Treat symptomatically. See patient package insert in shipping carton for complete information.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical
No information available.

Special protective equipment for firefighters
Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).

Environmental precautions
See Section 12 for environmental precautions.

Methods and material for containment and cleaning up
Methods for Containment:
If emergency personnel are unavailable, contain spilled material.
Methods for cleaning up:
For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures/precautions: Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions: Keep in a cool, well-ventilated place. Store at room temperature 25 °C (77 °F). Avoid excessive heat.

Incompatible materials: No special restrictions on storage with other products.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Exposure Limits: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	OSHA- Time Weighted Average:	OSHA- Short Term Exposure Limit:	OSHA- Ceiling Limits	ACGIH- Time Weighted Average:	ACGIH- Short Term Exposure Limit:	ACGIH- Ceiling Limit Value:
Heparin Sodium 9041-08-1	None	None	None	None	None	None
Sodium Chloride 7647-14-5	None	None	None	None	None	None
Citric Acid Anhydrous 77-92-9	None	None	None	None	None	None
Dibasic Sodium Phosphate 7558-79-4	None	None	None	None	None	None
Water 7732-18-5	None	None	None	None	None	None

Appropriate engineering controls

Engineering Measures No special containment is required. Good general ventilation should be sufficient to control airborne levels.

Individual protection measures, such as personal protective equipment

Eye protection Eye protection not required for normal final product use. Safety glasses with side-shields are recommended for laboratory and manufacturing use.

Hand protection Use chemical resistant, impervious gloves.

Skin and body protection Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.

Respiratory protection No personal respiratory protective equipment normally required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state: Liquid
Appearance: Aqueous solution.
Color: colorless
Odor: Not available
Odor Threshold: No information available
pH: 6.0 - 8.0

Melting point / melting range:	Not available
Boiling point / boiling range:	Not available
Flash point:	Not determined
Evaporation rate:	Not available
Flammability (solid, gas):	No information available
Flammable limits in air-upper (%):	Not available.
Flammable limits in air-lower (%):	Not available.
Vapor pressure:	Not available
Vapor density	No information available
Density:	Not available
Solubility:	Soluble in water.
Partition coefficient (n-octanol/water):	Not available
Autoignition temperature:	Not available.
Decomposition temperature	No information available
Viscosity:	Not available
Explosive Properties:	No information available
Oxidizing Properties:	No information available

Other information

10. STABILITY AND REACTIVITY

Reactivity
No data available

Chemical stability
Stable under recommended storage conditions

Possibility of hazardous reactions
None under normal use conditions

Conditions to Avoid
Avoid excessive heat. Do not freeze.

Incompatible materials
None known

Hazardous decomposition products
No data available

11. TOXICOLOGICAL INFORMATION

Chemical Name	Inhalation LC50	Dermal LD50	Oral LD50
Heparin Sodium 9041-08-1	-	-	> 779000 IU/kg (Rat) > 779000 unit/kg (Rat)
Sodium Chloride 7647-14-5	42 g/m^3 1 h (Rat)	> 10 g/kg (Rabbit)	= 3 g/kg (Rat)
Citric Acid Anhydrous 77-92-9	-	> 2000 mg/kg (Rat)	= 3 g/kg (Rat) = 3000 mg/kg (Rat)
Dibasic Sodium Phosphate 7558-79-4	-	-	= 17 g/kg (Rat)
Water 7732-18-5	-	-	> 90 mL/kg (Rat)

Information on likely routes of exposure

Inhalation: Inhalation not likely under normal use conditions.

Eye contact: Not expected to cause eye irritation.

Skin contact: Not expected to cause skin irritation.

Ingestion: No known effect according to our database.

Information on Toxicological Effects

Symptoms: Overexposure may include nosebleeds, blood in urine, tarry stools, easy bruising, and petechial formations (minute hemorrhagic spots).

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation: Not classified.

Corrosivity: Not classified.

Sensitization: Not classified.

Mutagenic effects: Not classified.

Carcinogenic effects: Not classified.

Chemical Name	ACGIH	IARC	NTP	OSHA
Heparin Sodium 9041-08-1	-	-	-	-
Sodium Chloride 7647-14-5	-	-	-	-
Citric Acid Anhydrous 77-92-9	-	-	-	-
Dibasic Sodium Phosphate 7558-79-4	-	-	-	-
Water 7732-18-5	-	-	-	-

Reproductive toxicity: Not classified.

STOT - single exposure: Not classified.

STOT - repeated exposure: Not classified.

Aspiration Hazard: Not classified.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 1 % of the mixture consists of ingredient(s) of unknown toxicity

12. ECOLOGICAL INFORMATION

Chemical Name	Ecotoxicity - Water Flea Data	Fish Species Ecotoxicity	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data
Heparin Sodium 9041-08-1	None.	None.	None.	None.
Sodium Chloride 7647-14-5	1000 mg/L EC50 48 h 340.7 - 469.2 mg/L EC50 48 h	5560 - 6080 mg/L LC50 Lepomis macrochirus 96 h	None.	None.

		12946 mg/L LC50 Lepomis macrochirus 96 h 6020 - 7070 mg/L LC50 Pimephales promelas 96 h 7050 mg/L LC50 Pimephales promelas 96 h 6420 - 6700 mg/L LC50 Pimephales promelas 96 h 4747 - 7824 mg/L LC50 Oncorhynchus mykiss 96 h		
Citric Acid Anhydrous 77-92-9	120 mg/L EC50 72 h	1516 mg/L LC50 Lepomis macrochirus 96 h	None.	= 14 mg/L EC50 Photobacterium phosphoreum
Dibasic Sodium Phosphate 7558-79-4	None.	None.	None.	None.
Water 7732-18-5	None.	None.	None.	None.

Ecotoxicity
No information available
1.001 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability
No information available.

Bioaccumulative potential
Bioaccumulative potential

Mobility in soil
No information available

Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products In accordance with local and national regulations

Contaminated Packaging In accordance with local and national regulations.

14. TRANSPORT INFORMATION

DOT Not regulated

Environmental hazard Not applicable
Special Provisions None

15. REGULATORY INFORMATION

U.S. Regulations:
TSCA Inventory List - The product is exempt from TSCA, it is FDA Regulated

OTHER REGULATIONS:

Chemical Name	Weight-%	RCRA Status:	CERCLA Reportable Quantity:	CERCLA/SARA - 302 Ext. haz. substances:	Listed as Sara 313 title III:
Heparin Sodium 9041-08-1	<0.1	Not Listed	Not Listed	Not Listed	Not Listed
Sodium Chloride 7647-14-5	<1	Not Listed	Not Listed	Not Listed	Not Listed
Citric Acid Anhydrous 77-92-9	<0.1	Not Listed	Not Listed	Not Listed	Not Listed
Dibasic Sodium Phosphate 7558-79-4	<1	Not Listed	5000 lb 2270 kg	Not Listed	Not Listed
Water 7732-18-5	>95	Not Listed	Not Listed	Not Listed	Not Listed

STATE REGULATIONS:

Chemical Name	California Prop. 65	Minnesota Right-To-Know:	Florida Right-to-Know Reporting List:	Rhode Island Right-to-Know List:	Massachusetts Right-to-Know List:	Pennsylvania Right-to-Know:	New Jersey Right-to-Know:
Heparin Sodium 9041-08-1	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Sodium Chloride 7647-14-5	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Citric Acid Anhydrous 77-92-9	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Dibasic Sodium Phosphate 7558-79-4	Not Listed	Not Listed	Not Listed	Not Listed	Present	Present	Present
Water 7732-18-5	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

CANADIAN REGULATIONS:

Canada DSL Inventory List - This product complies with DSL

16. OTHER INFORMATION

This data sheet contains changes from the previous version in section(s):
None

Additional information:
Not Available.

Prepared by: Baxter Research & Development
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To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

End of Safety Data Sheet