



Shandong Sheelian Pharmaceutical Co.,LTD
Yuncheng Industry Park, Yuncheng County, Heze City, Shandong P.R. China 274700.

Material Safety Data Sheet –Heparin Sodium

SECTION 1: PRODUCT AND COMPANY INFORMATION

Product Name Heparin Sodium
Product Type and Use Anticoagulant drugs
Appearance White or kind of white, powder
Manufacturer SHANDONG SHEELIAN PHARMACEUTICAL CO.,LTD
-Address Yuncheng Industry Park, Yuncheng County, Heze City, Shandong P.R.China
-Post Code 274700
-Tel. 0086 531 88818530

SECTION 2: HAZARD INFORMATION

Component Heparin Sodium

Emergency Overview

Hygroscopic(absorbs moisture from the air)

Potential Health Effects

Eye: No information regarding eye irritation and other potential effects was found. Contact

Skin: May cause skin irritation. Substance is an anticoagulant. Exposure by injection may cause hemorrhage at multiple sites, respiratory and kidney abnormalities, anemia, and cardiovascular collapse. May cause erythema (redness) and edema (fluid buildup) with crusting and scaling.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Low hazard for usual industrial handling.

Inhalation: May cause respiratory tract irritation. Low hazard for usual industrial handling.

Chronic: No information found.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Molecular formula	Percent	EINECS/ELI NCS
Heparin Sodium	9041-08-1	$(C_{12}H_{16}NS_2Na_3)_{20}$	ca.100%	232-681-7

Therapeutic Category Antibacterial



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SECTION 4: FIRST AID MEASURES

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin contact

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists

Inhalation

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Ingestion

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid.

SECTION 5: FIREFIGHTING MEASURES

General Information

wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air.

Extinguishing media

Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower:Not available.

Upper: Not available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Avoid runoff into storm sewers and ditches which lead to waterways. Clean up



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spills immediately, observing precautions in the Protective Equipment section. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Do not use combustible materials such as sawdust. Provide ventilation.

SECTION 7: HANDLING AND STORAGE

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid contact with skin and eyes. Keep container tightly closed. Avoid ingestion and inhalation. **Storage:**

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower facility.

Personal Protective Equipment

Eyes: Wear chemical safety goggles.

Skin: Wear appropriate protective gloves.

Clothing: Wear appropriate protective clothing.

Respirators: Wear NIOSH/MSHA - approved respirator

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State powder

Color White or off-white.

Odor NA



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pH: 5.5-8.0

Melting point/Freezing point: NA

Initial Boiling Point/Boiling Point Range: NA

Evaporation Rate: NA

Flammability (solid, gas): NA

Upper/Lower Flammability or Explosive Limits: NA

Vapor Pressure: NA

Vapor Density: NA

Specific Gravity: NA

Solubility: Soluble in water

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability Stable under normal temperatures and pressures.

Conditions to Avoid Incompatible materials, strong oxidants.

Incompatibilities with Other Materials Strong oxidizing agents, strong bases.

Hazardous Decomposition Products

Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.

Hazardous Polymerization Has not been reported.

SECTION 11: TOXICOLOGICAL PROPERTIES

Information for the ingredients is as follows

RTECS#:

CAS# 9041-08-1: MI0850000

LD50/LC50:

CAS# 9041-08-1:

Oral, mouse: LD50 = >5 gm/kg;

Oral, rat: LD50 = >779000 iu/kg;

.Carcinogenicity:

CAS# 9041-08-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65.



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Epidemiology: No information found

Teratogenicity: No information found

Neurotoxicity: No information found

SECTION 12: ECOLOGICAL INFORMATION

No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal

All waste materials must be properly characterized. Dispose of waste in accordance with all applicable Federal, State and local laws.

SECTION 14: TRANSPORT INFORMATION

Additional Transport Information: None

SECTION 15: REGULATORY INFORMATION

US FEDERAL

TSCA

CAS# 9041-08-1 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.



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CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 9041-08-1 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

Not available.



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Risk Phrases:

Safety Phrases:

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice

immediately (show the label where possible).

S 28A After contact with skin, wash immediately with plenty of water

WGK (Water Danger/Protection)

CAS# 9041-08-1: No information available.

Canada - DSL/NDSL

CAS# 9041-08-1 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products

Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

SECTION 16: ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.



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Disclaimer:

The use of this MSDS is solely at the responsibility of the user. SHEELIAN would not be responsible for the use of the same.

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