

Material Safety Data Sheet

Complies with EC no. 1907/2006
Issue Date: 11/15/2013

Section 1: Chemical Product and Company Identification

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Cat#: 01491
Part Name: HEPARIN SODIUM
Supplier: Polysciences, Inc.
400 Valley Road
Warrington, PA 18976 USA
MSDS Telephone #215-343-6484 Emergency only #215-378-4526

Identified uses: Laboratory use, manufacture of substances

Section 2: Hazards Identification

Hazard Overview

Toxicological properties are not known.

GHS Classification

Signal word: Warning



Hazard and Precautionary Statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P280A Wear protective gloves
P301A IF SWALLOWED do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P351 Rinse cautiously with water for several minutes.

NFPA Rating

Hazard Ratings:

These ratings are Polysciences' Inc. own assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

| Health | Flammability | Reactivity |
|--------|--------------|------------|
| 1 | 0 | 0 |

Section 3: Composition/ Information on Ingredients

Note: Items listed with a CASRN... number have no CAS# available.

| Item# | Name | EINECS | CAS# | % in product |
|-------|----------------------|---------|------------|--------------|
| 1 | Heparin, sodium salt | Unknown | 0009041081 | 95-100 |

Section 4: First Aid Measures

Flush eyes with flowing water for at least 15 minutes.
If breathing is difficult, contact emergency personnel.
If swallowed, wash out mouth with water if person is conscious.
Remove to fresh air.
Wash skin with deluge of water for at least 15 minutes.

Section 5: Fire Fighting Measures

Flash point, deg F.: no data Method: no data
UEL: no data LEL: no data Autoignition temperature, deg. F.: no data
Flammability Classification: no data Flame Propagation Rate: no data
Hazardous Combustion Products: no data

Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.

Protect personnel from exposure.

Sweep up solids.

Use appropriate personal protective equipment.

Section 7: Handling and Storage

Store at 4 deg. C.

Section 8: Exposure Controls/ Personal Protection

OSHA (ACGIH) Exposure Limits

| | CAS#: 0009041081 | IDLH: NE | TWA | | STEL | | CEILING | |
|-------|------------------|----------|-----|-----|------|-------|---------|-------|
| | | | ppm | mg/ | ppm | mg/m3 | ppm | mg/m3 |
| OSHA | | | NE | NE | NE | NE | NE | NE |
| ACGIH | | | NE | NE | NE | NE | NE | NE |

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

Use chemical splash goggles and face shield.

Use latex or equivalent gloves.

Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

Rinse and remove gloves immediately after use. Wash hands with soap and water. All glove recommendations presume that the risk of exposure is through splash and not intentional immersion of the hands into the product.

Since glove permeation data does not exist for this material, no recommendation for the glove material can be given for the product.

Permeation data must be obtained from the glove manufacturer to determine if the glove is suitable for the task.

Section 9: Physical and Chemical Properties

| | | | |
|-----------------|----------|-------------------|------------------|
| Formula: | no data | vapor pressure: | no data |
| Formula Weight: | no data | vapor density: | no data |
| boiling point: | no data | Specific gravity: | 0 |
| melting point: | no data | ph: | no data |
| solubility: | 50 mg/ml | appearance: | off white powder |

Section 10: Stability and Reactivity

Chemical Stability stable

Conditions to Avoid: no data

Incompatibility with other materials: oxidizers

Hazardous Decomposition Products: oxides of carbon

Hazardous Polymerization: will not occur

Section 11: Toxicological Information

Acute Data: LD50 Oral rat; > 779000 iu/kg

Subchronic data: no data

Section 12: Ecological Information

no data

Section 13: Disposal Considerations

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

| CAS# | Waste Code | Regulated Name |
|------------|------------|----------------|
| 0009041081 | not listed | not listed |

Section 14: Transportation Data

Proper Shipping Name NOT REGULATED

Chemical Name

UN

Class

PG

Section 15: Regulatory Information

All components of this product are on the TSCA public inventory.

All components of this product are on the TSCA public inventory.

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

| CAS# | Column A | Column B |
|------------|----------|----------|
| 0009041081 | no | no |

State Regulatory Information :If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

| CAS# | |
|------------|------------|
| 0009041081 | not listed |

SARA Toxic Release Chemicals(as defined in Section 313 of SARA Title III)

This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

| CAS# | Regulated name | de minimis conc. % | Rep. Thres. |
|------------|----------------|--------------------|-------------|
| 0009041081 | not listed | not listed | not listed |

SARA Extremely Hazardous Substances and TPQs

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

| CAS# | Regulated name | TPQ (pounds) | EHS-RQ(pounds) |
|------------|----------------|--------------|----------------|
| 0009041081 | not listed | not listed | not listed |

CERCLA

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

| CAS# | Regulated name | RQ (pounds) |
|------------|----------------|-------------|
| 0009041081 | Not listed | Not listed |

Section 16: Other Information

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END OF MSDS