

Safety Data Sheet

| SDS Title: | SDS Number: | Page Number: |
|---|-------------------|-----------------|
| Enoxaparin Sodium Injection Safety Data Sheet | SDS-000017 | Page 1 of 13 |
| Function: | Effective Date: | Version number: |
| Regulatory Affairs | November 22, 2021 | 2.0 |

Section 1. Identification

| GHS product identifier | : Enoxaparin Sodium Injection |
|----------------------------------|-------------------------------|
| Other means of identification | : Enoxaparin Sodium Injection |
| Product type | : Liquid. |

| Relevant identified uses of the substance or mixture and uses advised against | | |
|---|---|--|
| Product use | Pharmaceuticals (For intended use only.). Observe technical data sheet/instructions for use. Specific Treatments: Anti-clotting agents. | |
| Area of application | : Professional applications. | |
| Supplier's details | : Meitheal Pharmaceuticals, Inc. 8700 W. Bryn Mawr, Suite 600S Chicago, IL 60631 Telephone: 224-443-4617 www.meithealpharma.com | |
| e-mail address of person responsible for this SDS | : info@meithealpharma.com | |
| Emergency telephone number (with hours of operation) | : 844-824-8426 (Monday - Friday, 08:00 - 18:00 CST) | |

Section 2. Hazards identification **OSHA/HCS** status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. **Classification of the** : Not classified. substance or mixture **GHS label elements** Signal word : No signal word. Hazard statements : No known significant effects or critical hazards. **Precautionary statements Prevention** : Not applicable.



Meitheal Pharmaceuticals, Inc. Response Storage

: Not applicable.

: Not applicable.



Safety Data Sheet

| SDS Title: Enoxaparin Sodium Injection Safety Data Sheet | SDS Number: SDS-000017 | Page Number:Page 2 of 13 |
|---|---------------------------|--------------------------|
| Function: | Effective Date: | Version number: |
| Regulatory Affairs | November 22, 2021 | 2.0 |

Section 2. Hazards identification

Disposal

: Not applicable.

Hazards not otherwise classified

: None known.

: Mixture

Section 3. Composition/information on ingredients

Substance/mixture Other means of

identification

: Enoxaparin Sodium Injection

| Ingredient name | Other names | % | CAS number |
|----------------------|-------------|-----------|------------|
| water | - | ≥75 - ≤90 | 7732-18-5 |
| Heparin, sodium salt | - | ≥10 - ≤25 | 9041-08-1 |
| nitrogen | - | ≤0.3 | 7727-37-9 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Section 4. First aid measures

Description of necessary first aid measures

| Eye contact | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
|--------------|--|
| Inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Skin contact | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| Ingestion | : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |

Most important symptoms/effects, acute and delayed

| Potential acute health effe | ects |
|-----------------------------|---|
| Eye contact | : No known significant effects or critical hazards. |
| Inhalation | : No known significant effects or critical hazards. |
| Skin contact | : No known significant effects or critical hazards. |
| Ingestion | : No known significant effects or critical hazards. |
| Over-exposure signs/sym | ptoms |



Meitheal Pharmaceuticals, Inc. Eye contact

: No specific data.



Safety Data Sheet

| SDS Title: | SDS Number: | Page Number: |
|---|------------------------|-----------------|
| Enoxaparin Sodium Injection Safety Data Sheet | SDS-000017 | Page 3 of 13 |
| Function: | Effective Date: | Version number: |
| Regulatory Affairs | November 22, 2021 | 2.0 |

Section 4. First aid measures

| Inhalation | : No specific data. |
|--------------|---------------------|
| Skin contact | : No specific data. |
| Ingestion | : No specific data. |

Indication of immediate medical attention and special treatment needed, if necessary

| Notes to physician | : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
|----------------------------|--|
| Specific treatments | : No specific treatment. |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. |

See toxicological information (Section 11)

Section 5. Fire-fighting measures

| Extinguishing media | |
|--|---|
| Suitable extinguishing media | : Carbon dioxide, water spray or fog, dry chemical or foam. |
| Unsuitable extinguishing media | : Do not use water jet. |
| Specific hazards arising from the chemical | : In a fire or if heated, a pressure increase will occur and the container may burst. |
| Hazardous thermal decomposition products | : Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides |
| Special protective actions for fire-fighters | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Special protective equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| | |

Section 6. Accidental release measures

| Personal precautions, prote | ctive equipment and emergency procedures |
|-----------------------------|--|
| For non-emergency | : No action shall be taken involving any personal risk or without suitable training. |
| personnel | Evacuate surrounding areas. Keep unnecessary and unprotected personnel from |



entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.



| SDS Number: SDS-000017 | Page Number: Page 4 of 13 |
|--------------------------------------|------------------------------|
| Effective Date: November 22, 2021 | Version number: 2.0 |

Section 6. Accidental release measures

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

| Small spill | : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
|-------------|--|
| Large spill | : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |

Section 7. Handling and storage

| Precautions for safe handling | | |
|--|--|----------------------------------|
| Protective measures | Put on appropriate personal protective equipment (see Section 8). | |
| Advice on general occupational hygiene | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before ea drinking and smoking. Remove contaminated clothing and protective equipment entering eating areas. See also Section 8 for additional information on hygiene measures. | ating, |
| Conditions for safe storage, including any incompatibilities | Store in accordance with local regulations. Store in original container protected f direct sunlight in a dry, cool and well-ventilated area, away from incompatible ma (see Section 10) and food and drink. Keep container tightly closed and sealed u ready for use. Containers that have been opened must be carefully resealed and upright to prevent leakage. Do not store in unlabeled containers. Use appropriat containment to avoid environmental contamination. See Section 10 for incompa | iterials ntil d kept te |

materials before handling or use.



| SDS Number: SDS-000017 | Page Number: Page 5 of 13 |
|--------------------------------------|------------------------------|
| Effective Date: November 22, 2021 | Version number: 2.0 |

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | | Exposure limits | |
|---|---|--|--|
| water Heparin, sodium salt nitrogen | | None. None. ACGIH TLV (United States, 1/2021). Oxygen Depletion [Asphyxiant]. | |
| Appropriate engineering controls | : Good general ventilation should be s contaminants. | sufficient to control worker exposure to airborne | |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. | | |
| Individual protection meas | ures . | | |
| Hygiene measures | eating, smoking and using the lavat Appropriate techniques should be u | broughly after handling chemical products, before ory and at the end of the working period. Ised to remove potentially contaminated clothing. reusing. Ensure that eyewash stations and safety n location. | |
| Eye/face protection | : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. | | |
| Skin protection | | | |
| Hand protection | | es complying with an approved standard should be emical products if a risk assessment indicates this is | |
| Body protection | | e body should be selected based on the task being nd should be approved by a specialist before | |
| Other skin protection | | onal skin protection measures should be selected and the risks involved and should be approved by a uct. | |
| Respiratory protection | appropriate standard or certification | for exposure, select a respirator that meets the b. Respirators must be used according to a sure proper fitting, training, and other important | |



Safety Data Sheet

| SDS Title: Enoxaparin Sodium Injection Safety Data Sheet | | Page Number: Page 6 of 13 |
|---|-------------------|------------------------------|
| Function: | Effective Date: | Version number: |
| Regulatory Affairs | November 22, 2021 | 2.0 |

Section 9. Physical and chemical properties

| Appearance | |
|---|---|
| Physical state | : Liquid. [Solution.] |
| Color | : Colorless to light yellow./Greenish yellow. |
| Odor | : Odorless. |
| Odor threshold | : Not available. |
| рН | : 5.5 to 7.5 |
| Melting point | : Not applicable. |
| Boiling point | : Not applicable. |
| Flash point | : Closed cup: 305.5°C (581.9°F) |
| Evaporation rate | : Not applicable. |
| Flammability (solid, gas) | : Not applicable. |
| Lower and upper explosive (flammable) limits | : Not applicable. |
| Vanar processo | : Not applicable. |
| Vapor pressure | |
| Vapor density | : Not available. |
| | |
| Vapor density | : Not available. |
| Vapor density Relative density | : Not available. : 1.0521 [Water = 1] |
| Vapor density Relative density Density | : Not available. : 1.0521 [Water = 1] : 1.0521 g/cm ³ [25°C (77°F)] |
| Vapor density Relative density Density Solubility | Not available. 1.0521 [Water = 1] 1.0521 g/cm³ [25°C (77°F)] Soluble in the following materials: cold water and hot water. |
| Vapor density Relative density Density Solubility Solubility in water Partition coefficient: n- | Not available. 1.0521 [Water = 1] 1.0521 g/cm³ [25°C (77°F)] Soluble in the following materials: cold water and hot water. Not available. |
| Vapor density Relative density Density Solubility Solubility in water Partition coefficient: n- octanol/water | Not available. 1.0521 [Water = 1] 1.0521 g/cm³ [25°C (77°F)] Soluble in the following materials: cold water and hot water. Not available. Not applicable. |
| Vapor density Relative density Density Solubility Solubility in water Partition coefficient: n- octanol/water Auto-ignition temperature | Not available. 1.0521 [Water = 1] 1.0521 g/cm³ [25°C (77°F)] Soluble in the following materials: cold water and hot water. Not available. Not applicable. Not applicable. |
| Vapor density Relative density Density Solubility Solubility in water Partition coefficient: n- octanol/water Auto-ignition temperature Decomposition temperature | Not available. 1.0521 [Water = 1] 1.0521 g/cm³ [25°C (77°F)] Soluble in the following materials: cold water and hot water. Not available. Not applicable. Not applicable. Not applicable. |

Section 10. Stability and reactivity

| Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
|------------|--|
| | |

Chemical stability : The product is stable.

Possibility of hazardous reactions



: Under normal conditions of storage and use, hazardous reactions

will not occur.

Under normal conditions of storage and use, hazardous polymerization will not occur.

Safety Data Sheet

Conditions to avoid

: No specific data.



Safety Data Sheet

| SDS Title: Enoxaparin Sodium Injection Safety Data Sheet | SDS Number: SDS-000017 | Page Number: Page 7 of 13 |
|---|---------------------------|------------------------------|
| Function: | Effective Date: | Version number: |
| Regulatory Affairs | November 22, 2021 | 2.0 |
| | | |

Section 10. Stability and reactivity

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials and acids.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

| Information on toxicological | ettects |
|---------------------------------|--|
| Acute toxicity | |
| Not available. | |
| Irritation/Corrosion | |
| Not available. | |
| Sensitization | |
| Not available. | |
| Mutagenicity | |
| Conclusion/Summary | : Not available. |
| Carcinogenicity | |
| Conclusion/Summary | : None of the components in this product at concentrations greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen. |
| Reproductive toxicity | |
| Conclusion/Summary | : Not available. |
| Teratogenicity | |
| Conclusion/Summary | : Not available. |
| Specific target organ toxici | <u>ty (single exposure)</u> |
| Not available. | |
| Specific target organ toxici | ty (repeated exposure) |
| Not available. | |
| Aspiration hazard | |
| Not available. | |
| Information on the likely | : Not available. |
| routes of exposure | |
| Potential acute health effects | <u> </u> |
| Eye contact | : No known significant effects or critical hazards. |
| Inhalation | : No known significant effects or critical hazards. |
| This document contains propriet | ary information. It must not be reproduced or disclosed to others without prior written approval. |

The user is responsible for checking the current effective date before using this document.



Meitheal Pharmaceuticals, Inc. Skin contact

: No known significant effects or critical hazards.



Safety Data Sheet

| SDS Title: | SDS Number: | Page Number: |
|---|-------------------|-----------------|
| Enoxaparin Sodium Injection Safety Data Sheet | SDS-000017 | Page 8 of 13 |
| Function: | Effective Date: | Version number: |
| Regulatory Affairs | November 22, 2021 | 2.0 |

Section 11. Toxicological information

Ingestion

: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

| Eye contact | : No specific data. |
|--------------|---------------------|
| Inhalation | : No specific data. |
| Skin contact | : No specific data. |
| Ingestion | : No specific data. |

Delayed and immediate effects and also chronic effects from short and long term exposure

| Short term exposure Potential immediate effects | : Not available. |
|---|------------------|
| Potential delayed effects | : Not available. |
| Long term exposure | |
| Potential immediate effects | : Not available. |

Potential delayed effects : Not available.

| Potential chronic health ef | fects |
|--|---|
| Not available. | |
| General | : No known significant effects or critical hazards. |
| Carcinogenicity | : No known significant effects or critical hazards. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Teratogenicity | : No known significant effects or critical hazards. |
| Developmental effects Fertility effects | No known significant effects or critical hazards.No known significant effects or critical hazards. |

Numerical measures of toxicity

Acute toxicity estimates



Safety Data Sheet

| SDS Title: | SDS Number: | Page Number: |
|---|-------------------|-----------------|
| Enoxaparin Sodium Injection Safety Data Sheet | SDS-000017 | Page 9 of 13 |
| Function: | Effective Date: | Version number: |
| Regulatory Affairs | November 22, 2021 | 2.0 |

Section 12. Ecological information

Toxicity

Conclusion/Summary : Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-----|-----------|
| water | -1.38 | - | low |
| nitrogen | 0.67 | - | low |

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

| Disposal methods | : The generation of waste should be avoided or minimized wherever possible. Disposal |
|------------------|--|
| | of this product, solutions and any by-products should at all times comply with the |
| | requirements of environmental protection and waste disposal legislation and any |
| | regional local authority requirements. Dispose of surplus and non-recyclable products |
| | via a licensed waste disposal contractor. Waste should not be disposed of untreated to |
| | the sewer unless fully compliant with the requirements of all authorities with jurisdiction. |
| | Waste packaging should be recycled. Incineration or landfill should only be considered |
| | when recycling is not feasible. This material and its container must be disposed of in a |
| | safe way. Empty containers or liners may retain some product residues. Avoid |
| | dispersal of spilled material and runoff and contact with soil, waterways, drains and |
| | sewers |

Section 14. Transport information

| | DOT Classification | IMDG | ΙΑΤΑ |
|-------------------------------|--------------------|----------------|----------------|
| UN number | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping name | - | - | - |
| Transport hazard class(es) | - | - | - |



Safety Data Sheet

| SDS Title: | SDS Number: | Page Number: | |
|---|-------------------|-----------------|--|
| Enoxaparin Sodium Injection Safety Data Sheet | SDS-000017 | Page 10 of 13 | |
| Function: | Effective Date: | Version number: | |
| Regulatory Affairs | November 22, 2021 | 2.0 | |
| Section 14. Transport information | | | |

Section 14. Transport information

| Packing group | - | - | - |
|--------------------------|-----|-----|-----|
| Environmental hazards | No. | No. | No. |

Additional information

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

| J.S. Federal regulations | : TSCA 8(a) CDR Exe | empt/Partial exemption: Not determined |
|---|---------------------|---|
| | United States inve | ntory (TSCA 8b): All components are active or exempted. |
| Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) | : Not listed | |
| Clean Air Act Section 602 Class I Substances | : Not listed | |
| Clean Air Act Section 602 Class II Substances | : Not listed | |
| DEA List I Chemicals (Precursor Chemicals) | : Not listed | |
| DEA List II Chemicals (Essential Chemicals) | : Not listed | |
| SARA 302/304 | | |
| Composition/information | on ingredients | |
| No products were found. | | |
| SARA 304 RQ | : Not applicable. | |
| SARA 311/312 | | |
| Classification | : Not applicable. | |
| Composition/information | on ingredients | |
| | | |
| Name | % | Classification |

SARA 313



Meitheal Pharmaceuticals, Inc. Not applicable.



Safety Data Sheet

| SDS Title: | SDS Number: | Page Number: |
|---|-------------------|-----------------|
| Enoxaparin Sodium Injection Safety Data Sheet | SDS-000017 | Page 11 of 13 |
| Function: | Effective Date: | Version number: |
| Regulatory Affairs | November 22, 2021 | 2.0 |

Section 15. Regulatory information

State regulations

| Massachusetts | : None of the components are listed. |
|----------------------------|--------------------------------------|
| New York | : None of the components are listed. |
| New Jersey | : None of the components are listed. |
| Pennsylvania | : None of the components are listed. |
| <u>California Prop. 65</u> | |

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

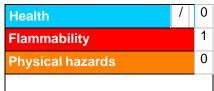
Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Safety Data Sheet

| SDS Title: | SDS Number: | Page Number: |
|---|-------------------|-----------------|
| Enoxaparin Sodium Injection Safety Data Sheet | SDS-000017 | Page 12 of 13 |
| Function: | Effective Date: | Version number: |
| Regulatory Affairs | November 22, 2021 | 2.0 |

Section 16. Other information



Reprinted with permission from NFPA 704, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

| Classification | | Justification | |
|--------------------------------|--|---------------|--|
| Not classified. | | | |
| <u>History</u> | | | |
| Date of issue/Date of revision | : 11/22/2021 | | |
| Date of previous issue | : 11/26/2019 | | |
| Version | : 2.0 | | |
| Prepared by | : Sphera Solutions | | |
| Key to abbreviations | ATE = Acute Toxicity Estimate AMP = Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available UN = United Nations | | |
| References | : HCS (U.S.A.)- Hazard Communication Standard International transport regulations | | |
| Notice to reader | - | | |



Safety Data Sheet

| SDS Title: | SDS Number: | Page Number: |
|---|------------------------|-----------------|
| Enoxaparin Sodium Injection Safety Data Sheet | SDS-000017 | Page 13 of 13 |
| Function: | Effective Date: | Version number: |
| Regulatory Affairs | November 22, 2021 | 2.0 |

Section 16. Other information

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.