

Catheter maintenance kit, 1ml saline, 0.3ml hep-glycerol (500U/ml), 1ml syringe, injectors, 50 pcs

Revision Date 21-OCT-2024

Revision Number 0

1. Identification of the Substance/Mixture and the Company/Undertaking

Product Identifier

Product Name Catheter maintenance kit, 1ml saline, 0.3ml hep-glycerol (500U/ml), 1ml syringe, injectors, 50 pcs

Other means of identification:

Product Code USPK-S-1-HGS500-0.3-NJ1P

Synonyms

Saline Sodium chloride (NaCl) 0.9%, Normal saline, NS
Heparin Hep, Heparin Sodium, Sodium Acid Heparin, Anti-coagulant
Glycerol Glycerin, Glycerine, 1,2,3-Propanetriol

Chemical Family Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended use Draw from, flush and lock catheters in animal research only,

Restrictions on use Not for human use. Contains no antimicrobial agents.

Details of the supplier of the safety data sheet:

Manufacturer Instech Laboratories, Inc.
450 S. Gravers Road
Plymouth Meeting, PA 19462
Phone: 610-941-0132
Fax: 610-941-0134
Email: orders@instechlabs.com

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2. Hazard(s) Identification

Classification of Substance or Mixture

GHS - Classification	Not classified as hazardous
Physical hazards	Not classified
Health hazards	Not classified
OSHA defined hazards	Not classified
Label elements	Not classified

Physical Hazards

Explosives	Not applicable
Flammable gases	Not applicable
Flammable aerosols	Not applicable
Oxidizing gases	Not applicable
Gases under pressure	Not applicable
Flammable liquids	Not applicable
Flammable solids	Not classified
Self-reactive substances and mixtures	Not applicable
Pyrophoric liquids	Not applicable
Pyrophoric solids	Not applicable
Self-heating substances and mixtures	Not applicable
Substances and mixtures which, in contact with water, emit flammable gases	Not applicable
Oxidizing liquids	Not applicable
Oxidizing solids	Not applicable
Organic peroxides	Not applicable
Corrosive to metals	Not applicable

Human Health Hazards

Acute toxicity (Oral)	Not applicable
Acute toxicity (Dermal)	Not applicable
Acute toxicity (Inhalation: Gases)	Not applicable
Acute toxicity (Inhalation: Vapors)	Not applicable
Acute toxicity (Inhalation: Dusts)	Not applicable

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Acute toxicity (Inhalation: Mists)	Not applicable
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory sensitization	No data available
Skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Aspiration hazard	No data available

Environmental Hazards

Acute toxicity to aquatic environment	No data available
Chronic toxicity to the aquatic environment	No data available

3. Composition/information on ingredients

Substance

Saline

Ingredients	CAS#	EC#	GHS Classification	%
Water for Injection, USP Sterile Grade	7732-18-5	231-791-2	Not Listed	99%
Sodium Chloride, USP	7647-14-5	231-598-3	Not Listed	0.9%

Heparin in Glycerol

Ingredients	CAS#	EC#	GHS Classification	%
Water for Injection, USP Sterile Grade	7732-18-5	231-791-2	Not Listed	49%
Glycerin, USP	56-81-5	200-289-5	Not Listed	50%
Heparin Sodium, USP	9041-0-1	9041-08-1	Not Listed	*500 units/mL

Additional Information

*The exact concentration of composition corresponds with the label on product.

4. First Aid Measures

Description of first aid measures

General advice

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact and ingestion. First aid measures are not specific for Sodium Chloride 0.9% (Normal Saline), USP Sterile Grade and do not imply that toxicity from the material is expected. If you feel respiratory symptoms or are unwell after exposure to Sodium Chloride 0.9% (Normal Saline), USP Sterile Grade see a physician. Serious health should always be investigated because Sodium

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Chloride 0.9% (Normal Saline), USP alone is unlikely to cause these symptoms other than cough if inhaled, or if ingested or applied to skin.

Inhalation	Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. See medical advice if discomfort or irritation persists. If breathing is difficult, give oxygen.
Ingestion	Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort, or vomiting persists.
Skin	Take off contaminated clothing and shoes immediately. Wash affected area with soap and water. Clean contaminated clothing by washing before reuse. Seek medical attention if irritation or discomfort persists.
Eye	Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lenses if needed. Immediately get medical assistance.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire Fighting Measures

Suitable Extinguishing Media As for primary cause of fire. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special Hazards Arising from the Substance or Mixture

Hazardous combustion products No data available

Unsuitable extinguishing media No data available

Specific hazards arising from the chemical No data available

Explosion data No data available

Sensitivity to mechanical impact No data available

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Sensitivity to static discharge No data available

Special protective equipment for fire-fighters Firefighters should use NIOSH approved respiratory protection/ breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes, or clothing. Use personal protective equipment as required.

Other Information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Follow facility-specific procedures for spill response. When cleaning spills, absorb with an inert dry material and wear appropriate personal protective equipment. Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

7. Handling and Storage

Precautions for safe handling

Advice on safe handling Do not handle until all safety precautions have been read.
Do not eat, drink, or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid contact with eyes, skin, and clothing.
Wash hands thoroughly after handling.
Releases to the environment should be avoided.
Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a cool, dry place 15°C-30°C (59°F-86°F).
Keep containers tightly closed in a dry, cool, and well-ventilated place.
Protect from sunlight.
Keep out of reach of children.
Avoid excessive heat.
Do not freeze.

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8. Exposure Control/Personal Protection

Control Parameters

Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Chloride 0.9% for Injection (Normal Saline)	No data available	No data available	No data available

Exposure control

Engineering controls should be used as the primary means to control exposures. General room ventilation is adequate.

Personal protection

Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE). Contact your safety and health professional or safety equipment supplier for assistance in selecting the correct protective clothing/equipment based on an assessment of the workplace conditions, other chemicals used or present in the workplace and specific operational processes.

Hand protection

Impervious gloves (e.g., Nitrile, etc.) are recommended if skin contact with drug product is possible and for bulk processing operations. (Protective gloves must meet the standards in accordance with EN374, ASTM F1001 or international equivalent.)

Eyes / face protection

Wear safety glasses or goggles if eye contact is possible. (Eye protection must meet the standards in accordance with EN166, ANSI Z87.1 or international equivalent.)

Skin and body protection

Impervious disposable protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations. (Protective clothing must meet the standards in accordance with EN13982, ANSI 103 or international equivalent.)

Respiratory protection

No personal respiratory protective equipment is required.

General hygiene considerations

Avoid contact with skin, eyes, or clothing.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state Aqueous solution

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Visual appearance	Liquid
Color	Colorless
Odor	Odorless
Odor threshold	No information available

Property	Values	Remarks / Method
Molecular weight	No data available	None known
Specific gravity	1.0 s.g.	None known
Solvent solubility	No data available	None known
Water solubility	No data available	None known
Solubility	Water	None known
Insoluble	No data available	None known
pH	4.5-7.0	None known
Freezing/Melting point (°C)	0°C (32°F) / No data available	None known
Boiling point (°C)	100°C (212°F)	None known
Decomposition temperature (°C)	No data available	None known
Evaporation rate (Gram/s)	No data available	None known
Vapor pressure (kPa)	No data available	None known
Vapor density (g/mL)	> 1	None known

10. Stability and Reactivity

Reactivity	No information available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	No data available.
Incompatible materials	Excessive heat.
Hazardous decomposition products	None known based on information supplied.
Chemically stability	Stable under normal conditions of use.
Incompatibility with other substances	No information available.

11. Toxicological Information

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Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical, and toxicological characteristics

Symptoms	Specific test data for the substance or mixture is not available.
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Acute toxicity

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

Skin corrosion/irritation	No information available.
Serious eye damage/ eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target organ effects	No information available.
Aspiration hazard	No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

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Known clinical effects No information available.

12. Ecological Information

Environmental properties have not been investigated. Releases to the environment should be avoided.

Persistence and degradability Readily degradable in the environment.

Bioaccumulation Does not significantly accumulate in organisms.

Other adverse effects Based on existing data about the elimination/ degradation and bioaccumulation, potential longer-term damage to the environment is unlikely.

13. Disposal Considerations

Waste treatment methods

Waste from residues/unused products Waste must be disposed of in accordance with federal, state, and local environmental control regulations. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all materials according to applicable regulatory entities.

Contaminated packaging Do not reuse empty containers.

14. Transport Information

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

15. Regulatory Information

International Inventories

TSCA Not applicable

DSL/NDSL (EU) Not applicable

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

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US Federal Regulations

SARA 311/312 Hazard Categories Not applicable

CERCLA Not applicable

US State Regulations

California Proposition 65 Not applicable

U.S. State Right-to-Know Regulations Not applicable

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other Information

Data Sources: Publicly available toxicity information. Instech Laboratories, Inc is proprietary drug development information.

This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

Instech Laboratories, Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document, there is no known information at this time.

17. Version History

Version History				
Version	Approved By	Revision Date	Description of Change	Author
0	JNewdeck	01JUN2022	N/A	Sterile Solutions Department

End of Safety Data Sheet