

Safety Data Sheet (SDS)

Date of Issue: 04/23/2018

Rev 001

PEG NaCl Solution

Section 1. Identification

Product Identifier

Catalog Number: 90196

Recommended use of the chemical and restrictions on use.

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

Manufacture/Supplier Details: Swift Biosciences, Inc.
58 Parkland Plaza, Suite 100
Ann Arbor, MI 48103

Emergency Telephone Numbers

CHEMTREC Emergency Phone Number: (800) 424-9300

Chemtrec should only be called in a chemical emergency (spill, leak, fire, exposure, or accident)

Section 2. Hazards Identification

Classification of the substance/mixture: Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements

The substance is classified and labeled according to the Globally Harmonized System (GHS). Not a hazardous substance or mixture.

Hazard statements: None

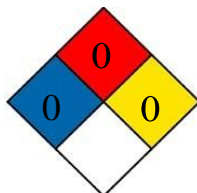
Signal word: None

Precautionary Statements: None

HMIS rating (Scale 0-4):

HEALTH	0
FIRE	0
REACTIVITY	0

NFPA Rating:



Hazards not otherwise classified: None

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Section 3. Composition/Information On Ingredients			
Chemical Name	Identifiers	Hazardous	Approximate Percentage %
Poly(ethylene glycol)	CAS: 25322-68-3	nonhazardous	-
Sodium Chloride	CAS: 7647-14-5	nonhazardous	-

Chemical Characterization: Mixture

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

Hazardous/Non-hazardous Components:

The material is composed of Poly(ethylene glycol) and Sodium Chloride. The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

Section 4. First-Aid Measures

Description of necessary measures

- Inhalation: Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Skin: Wash exposed area with soap and water. If symptoms arise, call a physician.
- Eye: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist call a physician.
- Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Vomiting may occur spontaneously. Do not induce vomiting without medical advice. If symptoms persist, call a physician.

Most important symptoms/effects, acute and delayed

No further relevant information available

Indication of any immediate medical attention and special treatment needed

All treatment should be based on observed sign and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5. Fire Fighting Measures

Extinguishing media:

Suitable extinguishing media: Water spray, Carbon dioxide, dry chemical, or appropriate foam.

Unsuitable Extinguishing:

None known

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Special hazards arising from the substance or mixture

Unusual fire and explosion hazards:

Carbon oxides; nature of decomposition products not known.

Hazardous Combustions products:

None known

Special protective equipment and precautions for the fire-fighters:

Wear self-contained breathing apparatus and protective suit.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective equipment including respiratory protection as conditions warrant. Avoid dust formation. Do not touch or walk through spilled material. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental precautions

Avoid run off to waterways and sewers.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

Dispose contaminated material as waste according to item 13. Do not let product enter drains.

Section 7. Handling And Storage

Precautions for safe handling:

Avoid inhalation and prolonged exposure. Use personal protective equipment such as gloves, goggles, and lab coat. Avoid contact with eyes, skin, and clothing.

Conditions for safe storage, including any incompatibilities

Storage:

Keep tightly closed in properly labeled containers; store in a dry place at directed temperature indicated on label.

Incompatible materials or Ignition sources:

Avoid strong oxidizing agents.

Section 8. Exposure Controls/Personal Protection

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Control parameters

Occupational exposure Limit values:	The USA WEEL TWA exposure limit of PEG 8000 is 10mg/m ³ .
Appropriate engineering controls:	Safety shower and eye wash. Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Eye protection:	Safety glasses with side-shields.
Hand Protection:	Impervious nitrile rubber gloves of > 0.11 mm thickness.
Respiratory Protection:	In case of insufficient ventilation wear suitable respiratory equipment.
Skin and body protection	Lightweight protective clothing.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	Prevent product from entering drains.

Section 9. Physical And Chemical Properties

Appearance:	Clear liquid
Odor:	No data available
Odor Threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point & boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Partition coefficient:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density (water):	No data available
Solubility:	Soluble in water
Upper/lower flammability or explosive limits:	No data available
Auto-ignition temperature:	305° C (581° F)
Decomposition temperature:	No data available
Viscosity:	No data available
Oxidizing properties:	No data available
Other information:	None

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Section 10. Stability And Reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Under normal conditions of storage and usage, hazardous reactions should not occur.
Conditions to avoid:	No specific data.
Incompatible materials:	Strong oxidizing agents, strong acids, strong bases.
Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Sodium oxides
Other:	Other decomposition products - No data available. Protect from heat and moisture.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

Product/Ingredient Name	CAS	Result	Species	Dose	Exposure
Poly(ethylene glycol)	25322-68-3	LD50 Oral: 15,000 mg/kg	Rat	Not available	Not available
Sodium Chloride	7647-14-5	LD50 Oral: 3,550 mg/kg	Rat	Not available	Not available
Sodium Chloride	7647-14-5	LC50 Inhalation: 42,000 mg/m3	Rat	Not available	1 h
Sodium Chloride	7647-14-5	LD50 Dermal: 10,000 mg/kg	Rabbit	Not available	Not available

Irritation/Corrosion

Product/Ingredient Name	Result	Species	Score	Exposure/Observation
Poly(ethylene glycol)	Mild skin irritation	Rabbit	Not available	24 h
Sodium Chloride	Not available	Not available	Not available	Not available

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Sensitization: Not available
 Mutagenicity: Not available

Carcinogenicity

Product/Ingredient Name	OSHA	IARC	NTP
PEG NaCl	None of the ingredients listed	None of the ingredients listed	None of the ingredients listed

Reproductive toxicity: Not available
 Teratogenicity: Not available
 Specific target organ toxicity- single exposure: Not available
 Specific target organ toxicity- repeated exposure: Not available
 Aspiration Hazard: Not available

Information on the likely routes of exposure

Routes of entry anticipated: Oral May be harmful if swallowed

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: May cause eye irritation with susceptible persons.
Inhalation: May be harmful by inhalation.
Skin contact: Mild skin irritation
Ingestion: May be harmful if swallowed.
Aspiration Hazard: Not available.

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

No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity: LD50 Oral – Rat: > 15,000 mg/kg (PEG)
 LD50 Oral - Rat - 3,550 mg/kg (NaCl)
Skin contact: LD50 Dermal Rabbit: >10,000 mg/kg (NaCl)

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Section 12. Ecological Information

Data not available. PBT/vPvB assessment not available or required.

Toxicity

Product/ingredient name	Result	Species	Exposure
Sodium Chloride	LC50: 5,840 mg/l	Lepomis macrochirus (Bluegill)	96 h
Sodium Chloride	NOEC: 1,500 mg/l	Daphnia (water flea)	7 d
Sodium Chloride	LC50: 1,661 mg/l	Daphnia (water flea)	48 h

Persistence and degradability: Not available.

Biodegradation: Not available.

Bioaccumulative potential: Not available.

Mobility in soil: Not available.

Other adverse effects: Not available.

Aspiration Hazard: Not available.

Section 13. Disposal Considerations

Waste treatment methods

Product waste: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14. Transport Information

	UN Number	UN proper shipping name	Transport hazard class(es)	Packaging group	Environmental Hazards
DOT	Not regulated	No information available	No information available	No information available	None
IMDG	Not regulated	No information available	No information available	No information available	None
IATA	Not regulated	No information available	No information available	No information available	None

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Special Precautions for user

None specified.

IATA:

Proper shipping name

Not classified as dangerous in the meaning of transport regulations.

Hazard class None

Subsidiary class None

Packing group None

UN-No None

Marine pollutant No

DOT: This substance is considered to be non-hazardous for transport. No shipping name required.

Section 15. Regulatory Information

Safety health and environmental regulations/ legislation specific for the substance or mixture

Sara:	Not applicable.
Section 355 (Extremely hazardous substances):	This product is not regulated by SARA.
Section 313 (Specific toxic chemical listings):	This product is not regulated by SARA.
Section 302:	Not available.
SARA 311/312 Hazards:	Not available.
Chemicals known to cause cancer:	Not available.
Chemicals known to cause reproductive toxicity for females:	Not available.
Chemicals known to cause reproductive toxicity for males:	Not available.
Chemicals known to cause developmental delay:	Not available.
Carcinogenic categories:	Not available.
EPA (Environmental protection agency):	Not available.
TLV (Threshold limit value established by ACGIH):	Not available.
NIOSH-CA (National Institute for Occupational Safety and Health):	Not available.
OSHA-CA (Occupational Safety and Health Administration):	Not available.
Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61):	This product does not contain HAPs.
TSCA (Toxic substances control act) California Proposition 65:	This product does not contain chemicals listed under Proposition 65.
WHMIS hazard class:	This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.
GHS label elements:	Not available.
Hazard pictograms:	Not available.
Decomposition temperature:	Not available.

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Viscosity:	Not available.
Signal Word:	Not available.
Hazard-determining components of labeling:	Not available.
Hazard statements:	Not available.
Precautionary statements:	Not available.
National regulations:	Not available.
State right to know:	Pennsylvania and New Jersey Right-to-Know component: Polyethylene glycol, average MW 8,000, CAS-No. 25322-68-3.
Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

Section 16. Other Information

Disclaimer/Statement of Liability: The information contained herein is believed to be accurate but is not warranted to be so. Data and calculation are based on information furnished by the manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in section 1.

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Swift Biosciences, Inc Shall not be held liable for any damage resulting from handling or from contact with the above product. Swift Biosciences, Inc

Key to abbreviations: NDA= No data available

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