Neptune Cleaner

Safety Data Sheet (SDS)

SECTION 1: IDENTIFICATION

1.1 Product Identifier:

Product name: Neptune Cleaner

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

Identified uses: To clean the inside of a medical device that washes surgical fluid waste.

1.3 Details of the Supplier of the Safety Data Sheet (SDS):

Supplier: Stryker Distribution

6300 S. Sprinkle Road
Portage, Michigan 49002
United States
Phone: 1-269-389-3706

Contact: Joe.Keithley@stryker.com

Manufacturer: Stryker Instruments

1941 Stryker Way
Portage, Michigan 49002
United States
Phone: 1-269-323-7700

1.4 Emergency Telephone Number:

From Europe: 00353 61 498200 (24 hrs)

From US or Canada: CHEMTREC 1-(800)-424-9300
For Hazardous Materials [or Dangerous Goods] Incidents ONLY (spill, leak, fire, exposure or accident), call CHEMTREC within the USA and Canada at 800-424-9300 or globally at 703-527-3887 (collect calls accepted).

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

2.1.1 Classification in accordance with EC 1272/2008:

Physical and chemical hazards: Not classified

Human health: Acute Tox. 5 - H303, Skin Irrit. 2 - H315, Eye Dam. 1 - H318

Environment: Not classified

2.1.2 Classification in accordance with GHS:

Physical and chemical hazards: Not classified

Human health: Acute Tox. 5 - H303, Skin Irrit. 2 - H315, Eye Dam. 1 - H318

Environment: Not classified

2.1.3 Classification in accordance with 29 CFR 1910 (OSHA HCS):

This product is hazardous under the OSHA Hazard Communication Standard (HCS).

2.1.4 Classification in accordance with HSNO:

Class 8.3 - Eye Corrosive

2.1.5 Classification in accordance with WHMIS:

Class E Corrosive - Causes severe eye and skin irritation upon contact.

2.1.6 Classification in accordance with HMIS:

Health hazard: 3

Flammability: 0

Reactivity: 0

2.1.7 Classification in accordance with NFPA:

Health hazard: 3

Flammability: 0

Reactivity: 0

2.2 Label Elements:

Label in accordance with (EC) No. 1272/2008:

Hazard pictograms:

Signal word: **Danger**

Hazard statements:

H303	May be harmful if swallowed.
H315	Causes skin irritation.

	H318	Causes serious eye damage.
Precautionary statements:	**P264**	Wash hands thoroughly after handling.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P302 + P352	If on skin: Wash with plenty of soap and water.
	P305 + P351 + P338	If in eyes: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P332 + P313	Immediately call a poison center or doctor/physician.
	P332 + P313	If skin irritation occurs: Get medical advice/attention.
	P362	Take off contaminated clothing and wash before reuse.

2.3 Other Hazards:

No additional information available.

2.3.1 Potential Health Effects:

Inhalation:	Avoid inhalation of spray. Inhalation of mist may cause slight irritation of throat and lungs.
Ingestion:	May be harmful if swallowed.
Skin:	Brief contact may cause slight irritation. Prolonged contact may cause more severe irritation and discomfort, seen as local redness and swelling.
Eyes:	May be irritating to skin and eyes.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

This product is a preparation.

3.2 Mixtures:

Product Name:	Product Identifier:		Percent Range:	GHS Classification (EC1272/2008):
Sodium Lauryl Sulfate	CAS No: EC No:	151-21-3 205-788-1	10-30%	Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412
Ammonia, Aqueous Solution	CAS No: EC No:	1336-21-6 215-647-6	0-1%	Skin Corr. 1B - H314 Aquatic Acute 1 - H400
Alcohol Ethoxylate	CAS No:	84133-50-6	1-10%	Skin Irrit. 2 - H315 Eye Dam. 1 - H318
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, Ethoxylated	CAS No: EC No:	25322-68-3 500-038-2	0-1%	STOT SE 3 - H335
Diammonium Dihydrogen Ethylenediaminetetraacetate	CAS No: EC No:	20824-56-0 244-063-4	0-1%	Acute Tox. 4 - H332 STOT RE 2 - H373
Water	CAS No:	7732-18-5	40-60%	N/A

Note: The full text for all R-Phrases and Hazard Statements are displayed in *Section 16*.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures:

Inhalation: If irritation occurs; remove to fresh air. Seek medical assistance if irritation persists.

Ingestion: If individual is conscious and alert, give 1–2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave individual unattended.

Skin: Wash area thoroughly with water, then with soap and water. Contaminated clothing should be washed before reuse.

Eyes: Immediately flush eyes, including under the eyelids, with running water for 15 minutes. Seek medical assistance if irritation persists.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed:

General information: May be irritating to skin and eyes.

Inhalation: Avoid inhalation of spray. Inhalation of mist may cause slight irritation of throat and lungs.

Ingestion: May be harmful if swallowed.

Skin: Brief contact may cause slight irritation. Prolonged contact may cause more severe irritation and discomfort, seen as local redness and swelling.

Eyes: Causes irritation, experienced as pain, with excessive blinking and tear production.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media:

Water (fog) or foam for large fires. CO2 or dry chemicals for small fires.

5.2 Special Hazards Arising from the Substance or Mixture:

Hazardous combustion products: Water must be boiled off before product components will burn. Burning produces oxides of carbon and sulfur in large fires.

Unusual fire and explosion hazards: None

Specific hazards: None

5.3 Advice for Firefighters:

Special firefighting procedures: Use water to cool containers exposed to a fire.

Protective equipment for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use protective equipment appropriate for surrounding materials.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures:

Follow precautions for safe handling described in this SDS. In case of spills, beware of slippery floors and surfaces.

6.2 Environmental Precautions:

Do not discharge into drains, water courses, or onto the ground.

6.3 Methods and Material for Containment and Cleaning Up:

Recover as much of the material as practical. Soak up remainder with sand, vermiculite, or other inert absorbent material and haul to an approved dump in accordance with federal, state, and local regulations. Wash contaminated area with copious amounts of water and flush into sanitary sewer line(s). Avoid direct discharge into natural waterways.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Wash hands thoroughly after handling. Do not get in eyes. Avoid skin and clothing contact.

7.2 Conditions for Safe Storage, Including any Incompatibilities:

Containers should be stored at temperatures between 55-100˚F for product stability. Do not store with strong oxidizing agents. Avoid excessive heat.

7.3 Specific End Use(s):

The identified uses for this product are detailed in *Section 1.2*.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

No occupational exposure limits noted for ingredient(s).

8.2 Exposure Controls:

8.2.1 Engineering measures:

No special controls needed.

8.2.2 Protective equipment:

Eye protection: Chemical goggles with side-shields.

Skin protection: Protective gloves, long sleeved shirt, trousers, and resistant footwear. Apron may be used.

Other protection: Provide eye wash station and safety shower where splashing is probable.

8.2.3 Environmental exposure controls:

Do not discharge into drains, water courses, or onto the ground.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance:	Liquid	**Vapor Pressure:**	<25 mm Hg at 25˚C
Odor:	Slight odor	**Vapor Density:**	No data
Odor Threshold:	No data	**Relative Density:**	1.01-1.03
pH:	7.0-9.5	**Bulk Density:**	8.6-8.8 lb at 77˚F (25˚C), gal
Melting Point/Freezing Point:	No data	**Solubility(ies):**	Infinite
Initial Boiling Point	Begins foaming about 200˚F	**Partition Coefficient:**	No data
Flash Point:	No data	**Auto Ignition Temperature:**	No data
Evaporation Rate:	No data	**Decomposition Temperature:**	No data
Flammability:	No data	**Viscosity:**	No data
Flammability Limit – Lower	No data	**Explosive Properties:**	No data
Flammability Limit –Upper	No data	**Oxidizing Properties:**	No data

9.2 Other Information:

No other information.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Reacts with strong oxidizers, and strongly acidic solutions.

10.2 Chemical Stability:

Stable under normal temperature conditions and recommended use.

10.3 Possibility of Hazardous Reactions:

Reaction with: Strong oxidizers, and strongly acidic solutions.

Hazardous polymerization: Will not polymerize.

10.4 Conditions to Avoid:

Strong oxidizers. Do not mix with strongly acidic solutions.

10.5 Incompatible Materials:

Materials to avoid: Do not mix with strong oxidizers or strongly acidic solutions.

10.6 Hazardous Decomposition Products:

None

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

11.1.1 Toxicological information:

No data

11.1.2 Acute toxicity:

No data

11.1.3 Skin corrosion/irritation:

Irritating

11.1.4 Serious eye damage/irritation:

No data

11.1.5 Respiratory or skin sensitization:

Respiratory sensitization:	No data	**Skin sensitization:**	No data

11.1.6 Germ cell mutagenicity:

Genotoxicity - In Vitro:	No data	**Genotoxicity - In Vivo:**	No data

11.1.7 Carcinogenicity:

IARC Carcinogenicity:	No data	**NTP Carcinogenicity:**	No data

11.1.8 Specific target organ toxicity - single exposure:

STOT - Single exposure:	No data	**STOT - Repeated exposure:**	No data

11.1.9 Route of entry:

No data

11.1.10 Target organs:

No data

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

No data

12.2 Toxicity:

Acute Toxicity - Fish:	No data
Acute Toxicity - Aquatic Invertebrates:	No data
Acute Toxicity - Aquatic Plants:	No data

12.3 Persistence and Degradability:

Degradability: The major component of this product is readily biodegradable.

12.4 Degradability:

Bioaccumulative potential: No data

12.5 Mobility in Soil:

Mobility: Infinite

12.6 Results of PBT and vPvB Assessment:

This product does not contain any PBT or vPvB substances.

12.7 Other Adverse Effects:

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 General Information:

Dispose in accordance with local, state, or federal regulations.

13.2 Waste Treatment Methods:

Do not dump into any sewers, on the ground, or into any body of water. Rinse containers before disposal. Since emptied containers contain product residue, follow label warnings even after container is emptied. Dispose of all waste in accordance with local, state, and federal regulations covering solid waste disposal.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number:

Not applicable

14.2 UN Proper Shipping Name:

Not applicable

14.3 Transport Hazard Class(es):

No transport warning sign required.

14.4 Packing Group:

Not applicable

14.5 Environmental Hazards:

Environmentally Hazardous Substance/Marine Pollutant: No

14.6 Special Precautions for User:

Not applicable

14.7 Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code:

Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 International Legislation:

15.1.1 **EU Legislation:** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.1.2 **Canadian Regulations:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

15.1.3 **Australian Regulations:** **Carcinogen Classification Under WHS Regulation 2011, Schedule 10:** Not listed
Standard for the Uniform Scheduling of Medicines & Poisons: Sodium lauryl sulfate

15.1.4 **US Regulations:** This SDS was prepared in accordance with the (US) Hazard Communication Standard (29 CFR 1910.1200).

California Prop 65: Not listed
Massachusetts "Right-To-Know" List: Ammonia, aqueous solution
New Jersey "Right-To-Know" List: Ammonia, aqueous solution
Pennsylvania "Right-To-Know" List: Not listed

15.2 International Inventories:

EU - EINECS/ELINCS:	Sodium lauryl sulphate Ammonia, aqueous solution Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy-Ethane-1,2-diol, ethoxylated Diammonium dihydrogen ethylenediaminetetraacetate
Canada - DSL/NDSL:	All listed on DSL
US - TSCA:	Not listed
Australia - AICS:	All listed
Japan - MITI:	All listed
Korea - KECI:	All listed
China - IECSC:	All listed
Philippines - PICCS:	All listed
New Zealand - NZIOC:	All listed

15.3 Chemical Safety Assessment:

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Indication of changes: SDS updated to reflect GHS and formatting of document.

Revision date: 01/2016

Revision: A

Hazard statements in full:

H303	May be harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H302	Harmful if swallowed.
H412	Harmful to aquatic life with long-lasting effect.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.
H335	May cause respiratory irritation.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.

Disclaimer

The foregoing information has been compiled by Stryker from sources it considers reliable and as of the date of this document, is believed to be accurate to the best of Stryker's knowledge. Before using the product identified hereon, all of the foregoing information should be carefully considered. The information herein applies only to the product identified hereon and does not relate to its use in combination with any other material or in any process. The information is provided in good faith to comply with applicable laws. However, no warranty or representation of law or fact, with respect to such information, is intended or given.

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