

Material safety data sheet

Product name: E62 Enzymatic Detergent

	Australian sponsor	New Zealand sponsor
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E62 Enzymatic Detergent

Safety Data Sheet (SDS)

Section 1: Identification

1.1. Product Identifier:

Product name: E62 Enzymatic Detergent

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

Identified uses: E62 Enzymatic Detergent is specifically formulated to clean medical instruments and protect instruments against the corrosive effects of water and water impurities as well as corrosion from mixed metals.

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: Melissa.Kann@stryker.com

Legal Manufacturer:

Stryker Instruments
1941 Stryker Way
Portage, MI 49002 USA
(269) 323-7700 (800) 253-3210

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: Hazard(s) 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: Eye Damage 1 - H318

Environment: Not classified

2.1.2 Classification in accordance with GHS:

Physical and chemical hazards: Not classified

Human health: Eye Damage 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 damage upon contact.

2.1.6 Classification in accordance with HMIS:

Health hazard: 1

Flammability: 0

Reactivity: 0

2.1.7 Classification in accordance with NFPA:

Health hazard: 1

Flammability: 0

Reactivity: 0

2.2 Label Elements:

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

Hazard pictograms:



Danger

Serious eye damage/eye irritation Category 2

Respiratory sensitization Category 1

Hazard statements:

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary Statements - Prevention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P284 - In case of inadequate ventilation wear respiratory protection.

Precautionary Statements - Response

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304 + P340 - IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

P264 Wash hands thoroughly after handling.

P310 Immediately call a poison center or doctor/physician.

P362 Take off contaminated clothing and wash before reuse.

2.3 Other Hazards:

No additional information available.

2.3.1 Potential Health Effects:

Inhalation: Inhalation of vapors or fumes may cause moderate to severe irritation to mucous membranes and respiratory tract. Avoid contact.

Ingestion: Exposure to liquid product may cause moderate to severe irritation to inner linings of mouth, esophagus and gastrointestinal tract. Do not ingest.

Eyes: Exposure to liquid product causes severe damage to eyes, and possibly burns. Symptoms of exposure may include redness, itching, swelling, tearing or pain. Avoid contact.

Route of Entry: Eye contact. Inhalation. Ingestion.

Target Organs: Eyes, respiratory system, and lungs.

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):
Protease (Subtilisin)	CAS # 9014-01-1	<1.0%	Acute Tox.4 - H302 Eye Damage.1 - H318
Polyalkylene glycol	CAS # 9003-11-6	1–10%	
Sodium lauryl sulfate	CAS # 151-21-3	10–15%	

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 this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. Seek medical attention if symptoms persist.

Ingestion: If this product is ingested, drink small amounts of water and seek medical attention promptly. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Skin: If this product contacts the skin, wash area with soap and water.

Eyes: Do not rub eyes. Remove contact lenses if worn. If this product contacts the eyes, immediately flush eyes with plenty of clean running water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Seek medical attention if irritation persists.

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

General information: See the Instructions For Use manual for warnings, precautions, interactions, adverse reactions and important physician information.

Inhalation: Inhalation of vapors or fumes may cause moderate to severe irritation to mucous membranes and respiratory tract. Avoid contact.

Ingestion: Exposure to liquid product may cause moderate to severe irritation to inner linings of mouth, esophagus and gastrointestinal tract. Do not ingest.

Eyes: Exposure to liquid product causes severe damage to eyes, and possibly burns. Symptoms of exposure may include redness, itching, swelling, tearing or pain. Effects of contact may be delayed. Avoid contact.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:

Treat symptomatically.

Section 5: Fire-Fighting Measures

5.1 Extinguishing Media:

The product is not flammable. Fire can be extinguished using: water (spray) or foam for large fires and Carbon Dioxide (CO₂) or dry chemicals for small fires.

5.2 Special Hazards Arising from the Substance or Mixture:

Hazardous combustion products: Burning produces oxides of carbon and sulphur.

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. Clean up spills immediately. Do not allow spills to dry.

6.2 Environmental Precautions:

Do not discharge non-diluted detergent into drains, water courses, or onto the ground. Diluted detergent is safe to dispose into drains.

6.3 Methods and Material for Containment and Cleaning Up:

Safely stop source of spill. Clean up spills immediately. Restrict non-essential personnel from the area. Wear protective clothing, goggles and respirator if ventilation is not adequate. Contain spill area and soak up material with sand or other absorbent. Place into chemical waste container for disposal according to local, state, or federal regulations at an approved chemical waste reprocessing facility.

6.4 Reference to Other Sections:

For waste disposal, see *Section 13*.

Section 7: Handling and Storage

7.1 Precautions for Safe Handling:

See the Instructions For Use manual. Use proper personal protection when handling (see *Section 8*). Use under well ventilated conditions. Avoid contact with eyes. Do not wear contact lenses. Avoid breathing vapors and mists. Avoid prolonged or repeated contact. Do not ingest. Wash thoroughly after handling. Rinse container before disposal.

7.2 Conditions for Safe Storage, Including any Incompatibilities:

Store in tightly closed original container in a dry, cool, and well-ventilated place. Store away from: Strong oxidizing agents.

Avoid excessive heat for prolonged periods of time. Avoid contact with strong acids.

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:

Provide adequate ventilation.

8.2.2 Protective equipment:

Eye protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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

8.2.3 Environmental exposure controls:

Do not discharge non-diluted detergent into drains, water courses, or onto the ground. Diluted detergent is safe to dispose into drains.

Section 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties:

Appearance:	Liquid	Vapor Pressure:	No data
Odor:	Light lavender	Vapor Density:	~25 mm Hg
Odor Threshold:	No data	Relative Density:	>1.04
pH:	8	Bulk Density:	No data
Melting Point/Freezing Point:	0°C	Solubility(ies):	Soluble in water
Initial Boiling Point	100°C (212°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:

Oxides of carbon and sulphur.

Section 11: Toxicological Information

11.1 Information on Toxicological Effects:

11.1.1 Toxicological information:

Limited toxicological information for the overall finished product.

11.1.2 Acute toxicity:

Product Name: Sodium Lauryl Sulfate

LD 50 Oral: 2000 mg/kg (Rat)

LD 50 Dermal: Not classified

LC 50 Inhalation: 2000 mg/kg (Rat)

11.1.3 Skin corrosion/irritation:

Not classified

11.1.4 Serious eye damage/irritation:

Causes serious eye damage.

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: Not listed

NTP Carcinogenicity: Not listed

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:

Eye contact. Inhalation. Ingestion.

11.1.10 Target organs:

Eyes, respiratory system, and lungs.

Section 12: Ecological Information

12.1 Ecotoxicity:

Hazardous to the aquatic environment.

12.2 Toxicity:

Acute Toxicity - Fish: Hazardous to aquatic life <LC 50 (pimephales promelas)

Acute Toxicity - Aquatic Invertebrates: No data

Acute Toxicity - Aquatic Plants: No data

12.3 Persistence and Degradability:

Degradability: This product is readily biodegradable.

12.4 Degradability:

Bioaccumulative potential: No data

12.5 Mobility in Soil:

Mobility: The product is soluble in water.

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:

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.2 Waste Treatment Methods:

Do not discharge non-diluted detergent into drains, water courses, or onto the ground. Diluted detergent is safe to dispose into drains. 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: Not listed

15.1.4 US Regulations:

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

SARA Section 302: Not listed

SARA 313 Emission Reporting: Not listed

California Prop 65: Not listed

Massachusetts "Right-To-Know" List: Not listed

New Jersey "Right-To-Know" List: Not listed

Pennsylvania "Right-To-Know" List: Not listed

15.2 International Inventories:

EU - EINECS/ELINCS: All listed

Canada - DSL/NDSL: All listed

US - TSCA: All 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

Date of Preparation/Update: November 2019

Hazard statements in full:

H302 Harmful if swallowed.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.

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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