

Safety Data Sheet

according to OSHA HCS 29 CFR 1910.1200(g)



Trade name: **5x Universal Lysis Buffer**

Revision date: 06/01/2022

Product No: 333

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifiers

Product name: 5x Universal Lysis Buffer

Product No.: 333

Manufacturer: Prolume / NanoLight

CAS-no.: N/A

EC-no.:

Other means of identification:

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: life science buffer system

Details of the supplier of the safety data sheet

Supplier: Prolume
P.O. Box 2746
Pinetop, AZ 85935
USA

phone: +1 928-367-1200

email: info@prolume.com

Emergency telephone number

Phone: +1 928-367-1200

2. HAZARD IDENTIFICATION

Classification of the substance or mixture

GHS classification in accordance with 29 CFR 1910 (OSHA HCS) and No 1272/2008 [CLP] (EC)

GHS label elements including precautionary statements

Pictogram



GHS07

Signal word

Warning

Hazard statement:

H319 Causes serious eye irritation.

H402 Harmful to aquatic life.

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Precautionary statements:

- P264 Wash arms, hands and face thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves and eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical attention.
P501 Dispose of contents in accordance with local, state, federal and international regulations.

NFPA ratings (scale 0-4)

Health = 1

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0-4)

Health = 1

Fire = 0

Reactivity = 0

OSHA hazard overview: Data not available

3. COMPOSTION/INFORMATION ON INGREDIENTS

Substances

Chemical characterization: Mixed compounds in aqueous form

Description: The product is an aqueous liquid with the following hazardous substances mixed in.

CAS-number	Component name	Total amount present
9002-93-1	Triton-X-100	<5%

4. FIRST AID MEASURES

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with plenty of water.

In case of eye contact

Flush eyes with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

May cause mild irritation to areas of contact.

Indication of any immediate medical attention and special treatment needed

Not expected to require special treatment.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Not considered to be a fire or explosion hazard.

Special protective equipment for firefighters

Wear protective clothing and NIOSH-approved breathing equipment appropriate for the surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid breathing vapors, mist or gas. Remove all sources of ignition.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Absorb with liquid-binding material and dispose contaminated material as waste according to section 13. Wipe surface with moist towel.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid inhalation of vapor or mist. Avoid direct contact with substance.

Conditions for safe storage

Keep container tightly closed.

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8. EXPOSURE CONTROLS – PERSONAL PROTECTION

Components with workplace control parameter

Substance: 5x Universal Lysis Buffer

Control parameter: This product doesn't contain any relevant amounts of material that would need monitoring at the workplace.

Personal protective equipment

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection: Not required.

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	5x Universal Lysis Buffer
Appearance	Clear liquid
Odor	No data available
Odor threshold	No data available
pH	7
Melting point / freezing point	No data available
Boiling point	Approx. 100°C
Flash point	No data available
Evaporate rate	No data available
Flammability	Not flammable
Explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available

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Relative density	No data available
Solubility	Soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No data available

Materials to avoid: No data available

Hazardous decomposition products: No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Oral LD50 no data available
Inhalation LC50 no data available
Dermal LD50 no data available
Other information on acute toxicity no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: irritating effect

Respiratory or skin sensitization: May be irritating to respiratory tract and mucus membranes.

Germ cell mutagenicity: no data available

Carcinogenicity: Not applicable.

Reproductive toxicity: Not applicable.

Specific target organ toxicity - single exposure (Globally Harmonized System): no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: Not applicable.

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12. ECOLOGICAL INFORMATION

Toxicity: Harmful to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations.

Persistence and degradability: no information available

Biodegradation: no information available

Mobility in soil: no information available

Additional ecological information: Water hazard. Do not allow product to reach ground water.

Results of PBT and vPvB assessment: no information available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

14. TRANSPORT INFORMATION

IATA, IMDG, DOT(US) not dangerous good

UN number: not hazardous for transportation

UN proper shipping name: none

Transport hazard class: none

Packing group: none

Environmental hazards: none

Special precaution for user: none

15. REGULATORY INFORMATION

US Federal Regulations US Toxic Substances Control Act (TSCA): not listed

SARA 302: No chemicals were found.

SARA 313: No chemicals were found.

SARA 311/312 Hazards: No chemicals were found.

California Prop. 65: No chemicals were found.

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16. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008

Prepared by: Regulatory Department - Prolume Inc.

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Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Prolume shall not be held liable for any damage resulting from handling or contact with the above product.

Department issuing SDS:

Prolume Inc.

P.O. Box 2746

Pinetop, AZ 85935

Date of preparation / revision: 06/01/2022

Abbreviations and acronyms:

DOT: US Department of Transportation

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health