

Material Safety Data Sheet

Product name: Western Blot Stripping Buffer

Product code: S208070

Supplier: ZmTech Scientific (scientifique)
5020 Fairway street, Suit 224, Montreal, QC, Canada H8T 1B8
Emergency Tel: 1-800-424-9300 (Transportation Spill Response 24 hours)
1-613-996-6666 (National Response in Canada)

Revision date: 01/23/2013

1. Hazards identification

Physical state: Liquid.

Active ingredients and hazardous components:

CAS-No.	Name	Contents	Hazardous
56-40-6	Glycine	5-7%	Yes
7732-18-5	Water	>85 %	No

Other components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200

Emergency overview: Danger!

CAUSES RESPIRATORY TRACT, EYE AND SKIN BURNS.

CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: RESPIRATORY TRACT, SKIN, EYES.
MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED.

Do not ingest. Do not get in eyes, on skin or clothing. Do not breathe vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Potential health effects:

Skin or Eye contact from splashes. Inhalation of the vapor. Ingestion.

Eyes contact Corrosive to eyes.

Skin contact Harmful in contact with skin. Corrosive to the skin.

Inhalation Corrosive to the respiratory system.

Ingestion Harmful if swallowed. May cause burns to mouth, throat and gastrointestinal tract.

2. First aid measures

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention immediately.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated cloth and shoes. Get medical attention if corrosion develops. Washed cloth before reuse.

Inhalation: If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. Perform endoscopy in all cases of suspected sodium hydroxide ingestion.

3. Fire-fighting measures

FLAMMABLE: No

FLASH POINT, °C: Not applicable

EXTINGUISHING MEDIA: For small (incipient) fires, use media such as foam, dry chemical, or carbon dioxide. For large fires, use media such as foam, dry chemical, carbon dioxide or water.

SPECIAL FIRE FIGHTING PROCEDURES:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Methods of fire Fighting: for small (incipient) fire flammable liquid fires. For large fires, fixed fire suppression system, such as a sprinkler system, should be capable of extinguishing a flammable liquid fire.

EXPLOSIVE SENSITIVITY TO: Not applicable

4. Accidental release measures

Personal Precautions

Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.

Environmental Precautions and Clean-up Methods

Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material and place in closed containers for disposal. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into

sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralized the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Small Spill and Leak

Dilute with water and mop up or absorb with an inert dry material and place in an appropriate waste disposal container. Neutralized the residue with a dilute solution of sodium carbonate if necessary. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

5. Handling and storage

Handling: Do not get in eyes, on skin, on clothing. Do not breathe vapor. Wash thoroughly after handling.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Intended Use: Refer to the instruction for proper and intended use. Otherwise, contact supplier for specific applications.

6. Exposure controls/personal protection

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded, a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece dust/mist respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

7. Physical and chemical properties

Physical state and appearance: Clear, colorless liquid

Odor: N/A.

Solubility: Miscible in water.

pH: Acidic.

Boiling point: N/A.

Melting point: May start to solidify at 0°C (32°F) based on data for water.

Evaporation rate (BuAc=1): Not available.

Ionicity (in Water): Not available.

8. Stability and reactivity

Stability and reactivity: Stable, under normal handling and storage conditions.

Materials to avoid: Strong oxidizing agents, Strong acids and organic materials.

Hazardous polymerization: Will not occur.

Hazardous Decomposition Products: No data available.

9. Toxicological information

Route of Exposure

Skin contact: Causes burns.

Skin Absorption: May be harmful if absorbed through the skin.

Eye contact: Causes burns.

Inhalation: may be harmful if inhaled.

Ingestion: May be harmful if swallowed.

Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Prolonged contact can cause severe irritation or even burns. Symptoms of exposure may include burning sensation, lung irritation, chest pain, oedema (which may be fatal), coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema.

10. Ecological information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Environmental Fate: No information found.

11. Disposal considerations

Substance disposal

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Contact a licensed professional waste disposal service to dispose of this material.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

12. Transport information

Domestic (Land, D.O.T.) and International (Water, I.M.O.)

Proper Shipping Name: Western blot stripping buffer

Hazard Class: 8

UN/NA: UN1824

Packing Group: II

13. Regulatory information

EU directive classification

Symbol of Danger: C

Indication of Danger: Corrosive.

R: 34-37

Risk Statements: Causes burns. Irritating to respiratory system.

S: 26-37/39-45

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

US Classification and Label Text

Indication of Danger: Toxic.

Risk Statements: Toxic by inhalation. Causes burns. Irritating to respiratory system.

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

United States Regulatory information

SARA Listed: No

TSCA Inventory Item: Yes

Canada regulatory Information

WHMIS classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No



Labeling:

Protective Equipment:

Gloves (impervious). Synthetic apron. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

Notice to reader

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