

# SAFETY DATA SHEET

Document Type AGHS - OSHA GHS

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Version 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product nameXbalProduct numberR0145Registration number(s)Not applicable

Recommended use of the chemical and restrictions on useRecommended useThis product is for research and development onlyUses advised againstNo information available

| Details of the supplier of the safety data sheet |  |  |  |
|--|--|--|--|
| Supplier address                                 | New England BioLabs<br>240 County Road<br>Ipswich, MA 01938<br>USA |  |  |
| Company phone number                             | 978-927-5054<br>800-632-5227 (toll free)                           |  |  |
| Fax  | 978-921-1350   |  |  |
| Email address                                    | info@neb.com   |  |  |
| Emergency telephone number                       |  |  |  |
| Emergency telephone                              | 978-927-5054   |  |  |
|  | 800-632-5227 (toll free)   |  |  |
|  | 9:00am - 5:00pm Monday-Friday EST                                  |  |  |

# 2. HAZARDS IDENTIFICATION

# **Classification**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS) For a list of product substances, refer to the specification document found at www.neb.com.

# Label elements

# **Emergency Overview**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance Colorless

Physical state Liquid

Odor Mild

# Hazards not otherwise classified (HNOC)

Other information

No information available

50.68116% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# Mixture

The product contains no substances which at their given concentration, are considered to be hazardous to health.

# 4. FIRST AID MEASURES

# First aid measures

## General advice

Immediate medical attention is required. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove from exposure, lie down. Do not breathe dust/fume/gas/mist/vapors/spray.

# Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

## Skin contact

Wash skin with soap and water.

## Inhalation

Remove to fresh air.

#### Ingestion

Clean mouth with water and drink afterwards plenty of water.

# Most important symptoms and effects, both acute and delayed

No information available.

## Indication of any immediate medical attention and special treatment needed

## Note to physicians

Treat symptomatically.

# **5. FIRE-FIGHTING MEASURES**

## Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## Unsuitable extinguishing media

Caution: Use of water spray when fighting fire may be inefficient.

## Specific hazards arising from the product

No information available.

## Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

## Personal precautions

Ensure adequate ventilation, especially in confined areas.

## Personal protective equipment [PPE]

Use personal protection recommended in Section 8.

## Environmental precautions

See Section 12 for additional ecological information.

## Methods and material for containment and cleaning up

## Methods for containment

Prevent further leakage or spillage if safe to do so.

## Methods for cleaning up

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. This material and its container must be disposed of as hazardous waste.

# 7. HANDLING AND STORAGE

# Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

## Conditions for safe storage, including any incompatibilities

## Storage temperature

Refer to www.neb.com for specific information.

# Incompatible materials

None known based on information supplied.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control Parameters

# **Exposure Guidelines**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

| Chemical Name       | ACGIH TLV                      | OSHA PEL   | NIOSH IDLH |
|---------------------|--------------------------------|--|------------|
| Glycerol<br>56-81-5 | TWA: 10 mg/m <sup>3</sup> mist | TWA: 15 mg/m <sup>3</sup> mist, total<br>particulate           | -          |
|                     |                                | TWA: 5 mg/m <sup>3</sup> mist, respirable<br>fraction          |            |
|                     |                                | (vacated) TWA: 10 mg/m <sup>3</sup> mist, total<br>particulate |            |
|                     |                                | (vacated) TWA: 5 mg/m <sup>3</sup> mist, respirable fraction   |            |

# Other information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

## Appropriate engineering controls

Showers. Eyewash stations.

# Individual protection measures, such as personal protective equipment

# Eye/face protection

Wear safety glasses with side shields (or goggles).

# Skin and body protection

Wear suitable protective clothing and gloves.

# **Respiratory protection**

Use in well ventilated areas.

# General hygine considerations

Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

| Physical state | Liquid    |
|----------------|-----------|
| Appearance     | Colorless |
| Odor           | Mild      |

| Property<br>pH<br>Melting point/freezing point<br>Boiling point/boiling range<br>Flash point<br>Evaporation rate<br>Flammability (solid, gas)<br>Flammability limits in air<br>Upper flammability limits<br>Lower flammability limit | Remarks • Method<br>Refer to www.neb.com for specific information<br>No information available<br>No information available<br>No information available<br>No information available<br>No information available |
|--|---|
| Vapor pressure   | No information available  |
| Vapor density  | No information available  |
| Relative density   | No information available  |
| Specific gravity   | No information available  |
| Water solubility   | No information available  |
| Solubility in other solvents   | No information available  |
| Partition coefficient  | No information available  |
| Autoignition temperature   | No information available  |
| Decomposition temperature  | No information available  |

#### Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties

#### Other information

Softening point Molecular weight VOC content (%) Density Bulk density No information available No information available No information available No information available

No information available No information available No information available No information available No information available

# **10. STABILITY AND REACTIVITY**

# Reactivity

No data available.

#### **Chemical stability**

Stable under normal conditions.

## Possibility of hazardous reactions

Can react briskly with oxidizers - danger of explosion.

## Conditions to avoid

Incompatible materials. Ignition sources. Heat.

# Incompatible materials

Strong oxidizing agents.

## Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO2).

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

# Inhalation

Avoid breathing vapors or mists. May cause irritation of respiratory tract.

## Eye contact

Redness. May cause slight irritation.

# Skin contact

Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking.

## Ingestion

May cause drowsiness or dizziness. Ingestion causes burns of the upper digestive and respiratory tracts. Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting.

## Information on toxicological effects

## Symptoms

No information available.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

| Skin corrosion/irritation<br>Serious eye damage/eye irritation<br>Irritation<br>Corrosivity<br>Sensitization | Mild<br>Mild<br>Mild<br>Mild |
|--|------------------------------|
| Skin   | No information available     |
| Respiratory  | No information available     |
| Germ cell mutagenicity   | No information available     |
| Carcinogenicity  | No information available     |
| Reproductive toxicity  | No information available     |
| Developmental toxicity   | No information available     |
| Teratogenicity   | No information available     |
| STOT - single exposure   | No information available     |
| STOT - repeated exposure   | No information available     |

Chronic toxicity Subchronic toxicity Target organ effects Neurological effects Other adverse effects Aspiration hazard No information available No information available Eyes, Kidneys, Respiratory system, Skin. No information available No information available No information available

# Numerical measures of toxicity - Product information

Unknown acute toxicity 50.68116% of the mixture consists of ingredient(s) of unknown toxicity The following values are calculated based on chapter 3.1 of the GHS document . mg/kg

# **12. ECOLOGICAL INFORMATION**

# Marine pollutant

No information available

Ecotoxicity No information available

0.19302% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

# Persistence and degradability

No information available

## Bioaccumulation No information available

Mobility No information available

# Other adverse effects

Ozone Ozone depletion potential (ODP) No information available No information available

# **13. DISPOSAL CONSIDERATIONS**

# Waste treatment methods

## Relevant information

Keep out of drains, sewers, ditches and waterways.

# Disposal method

Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a chemical incinerator.

# **Contaminated packaging**

Empty containers must be tripled rinsed prior to disposal.

# **14. TRANSPORT INFORMATION**

DOT

Not regulated

# **15. REGULATORY INFORMATION**

 International Inventories

 TSCA
 Complies

 Legend:
 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

# **US Federal Regulations**

# SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| SARA 311/312 Hazard Categories    |    |
|-----------------------------------|----|
| Acute health hazard               | No |
| Chronic Health Hazard             | No |
| Fire hazard                       | No |
| Sudden release of pressure hazard | No |
| Reactive hazard                   | No |

# CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

# CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

# **US State Regulations**

# California Proposition 65

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

# U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

| 16. OTHER INFORMATION                       |   |                                  |                                     |   |
|---|---|----------------------------------|-------------------------------------|---|
| NFPA<br>HMIS                                | Health hazards 0<br>Health hazards 0        | Flammability 0<br>Flammability 0 | Instability 0<br>Physical hazards 0 | Special Hazard -<br>Personal protection - |
| Prepared by                                 | EHS Manager<br>978-927-5054<br>info@neb.com |                                  |                                     |   |
| Prepared for<br>Issue date<br>Revision note | New Eng                                     | land BioLabs<br>available        | date. Contact info@neb.com          | n for latest revision.                    |
|   |   |                                  |                                     |   |

44 ATUER INFORMATION

## <u>Disclaimer</u>

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IMPORTANT: The information in this SDS is provided in good faith based on our knowledge as of the issue date (or subsequent revision date, if any), and is to be used only as a guide. This SDS does not constitute a guarantee (express or implied) of any kind and we make no warranties or merchantability or fitness for a particular purpose. This information relates only to the designated product as shipped and may not be valid if the product is used in combination with any other materials or is not used in accordance with our instructions. It is the responsibility of the buyer/user to ensure that its activities comply with all applicable governmental requirements. Since conditions of use of the product are not under the control of New England Biolabs, it is the duty of the buyer/user to determine the necessary conditions for the safe use of the product. New England Biolabs will not be liable for any damages resulting from handling or contact with the product.

**End of Safety Data Sheet**