

Document Type AGHS - OSHA GHS

Revision date 30-Apr-2013

Version 1

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

Product name Xbal  
Product No R0145

### Recommended use of the chemical and restrictions on use

Recommended use This product is for research and development only  
Uses advised against No information available

### Details of the supplier of the safety data sheet

Supplier address New England BioLabs  
240 County Road  
Ipswich, MA 01938  
USA

Company phone number 978-927-5054  
800-632-5227 (toll free)

Telefax 978-921-1350

E-mail 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)

### 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

50.68116% of the mixture consists of ingredient(s) of unknown toxicity *Note: No data available*

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product name Xbal

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Product No R0145

Specification No No information available

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## 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.

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## **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](http://www.neb.com) for specific information.

#### **Storage conditions**

Keep/store only in original container.

#### **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.

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

pH

Melting point/freezing point

Boiling point / boiling range

Flash point

Evaporation rate

Flammability (solid, gas)

Flammability Limit in Air

    Upper flammability limit

    Lower flammability limit

Vapor pressure

Vapor density

Relative density

Specific gravity

Water solubility

Solubility in other solvents

Partition coefficient

Autoignition temperature

Decomposition temperature

Kinematic viscosity

Dynamic viscosity

Explosive properties

Oxidizing properties

#### Remarks • Method

Refer to [www.neb.com](http://www.neb.com) for specific information

No information available

No information available

No information available

No information available

No information available

No information available

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No information available

No information available

No information available

No information available

No information available

No information available

No information available

#### 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

## 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 (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

Product name Xbal

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Product No R0145

Specification No No information available

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**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**

<b>Skin corrosion/irritation</b>	Mild
<b>Serious eye damage/eye irritation</b>	Mild
<b>Irritation</b>	Mild
<b>Corrosivity</b>	Mild
<b>Sensitization</b>	
<b>Skin</b>	No information available
<b>Respiratory</b>	No information available
<b>Germ cell mutagenicity</b>	No information available
<b>Carcinogenicity</b>	No information available

<b>Reproductive toxicity</b>	No information available
<b>Developmental toxicity</b>	No information available
<b>Teratogenicity</b>	No information available
<b>STOT - single exposure</b>	No information available
<b>STOT - repeated exposure</b>	No information available
<b>Chronic toxicity</b>	No information available
<b>Subchronic toxicity</b>	No information available
<b>Target organ effects</b>	Eyes, Kidneys, Respiratory system, Skin.
<b>Neurological effects</b>	No information available
<b>Other adverse effects</b>	No information available
<b>Aspiration hazard</b>	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.

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**Persistence and degradability**

No information available

**Bioaccumulation**

No information available

**Mobility**

No information available

**Other adverse effects**

**Ozone** No information available

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

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Relevant information**

Keep out of drains, sewers, ditches and waterways.

**Disposal considerations**

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**

**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.

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## 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

<b>16. OTHER INFORMATION</b>
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<u>NFPA</u>	Health hazards 0	Flammability 0	Instability 0	Special Hazard -
<u>HMIS</u>	Health hazards 0	Flammability 0	Physical hazards 0	Personal protection -

Prepared by	EHS Manager 978-927-5054 info@neb.com
Prepared by	New England BioLabs
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#### Disclaimer

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**End of Safety Data Sheet**