

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name **EcoRI-HF™**  
Product No R3101

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

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

### 1.3. 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

### For further information, please contact

E-mail address info@neb.com

### 1.4. Emergency telephone number

Emergency telephone 978-927-5054  
800-632-5227 (toll free)  
9:00am - 5:00pm Monday-Friday EST

Emergency telephone - §45 - (EC)1272/2008  
Europe 112

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## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

### 2.2. Label elements

#### **Product identifier**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

#### **Signal word**

None

EUH210 - Safety data sheet available on request

### 2.3. Other hazards

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Full text of H- and EUH-phrases: see section 16

## Section 4: FIRST AID MEASURES

### 4.1. Description of 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.

### 4.2. Most important symptoms and effects, both acute and delayed

No information available

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

#### **Note to physicians**

Treat symptomatically.

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## Section 5: FIRE FIGHTING MEASURES

### **5.1. 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.

### **5.2. Special hazards arising from the substance or mixture**

No information available

### **5.3. Advice for firefighters**

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

## Section 6: ACCIDENTAL RELEASE MEASURES

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

Ensure adequate ventilation, especially in confined areas.

#### **For emergency responders**

Use personal protection recommended in Section 8.

### **6.2. Environmental precautions**

See Section 12 for additional Ecological Information.

### **6.3. 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.

## Section 7: HANDLING AND STORAGE

### **7.1. Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice.

### **7.2. 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.

### **7.3. Specific end use(s)**

#### **Risk management methods [RMM]**

The information required is contained in this Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Product name** EcoRI-HF™

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**Product No** R3101

**Specification No** No information available

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### 8.1. Control parameters

<b>Exposure Limits</b>	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies
<b>Derived No Effect Level (DNEL)</b>	No information available
<b>Predicted No Effect Concentration (PNEC)</b>	No information available

### 8.2. Exposure controls

**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.

#### **Environmental exposure controls**

See Section 12: ECOLOGICAL INFORMATION.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid
<b>Appearance</b>	Colorless
<b>Odor</b>	Mild
<b>Odor threshold</b>	No information available

#### 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

#### Remarks • Method

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

No information available

**Kinematic viscosity**  
**Dynamic viscosity**  
**Explosive properties**  
**Oxidizing properties**

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

## Section 10: STABILITY AND REACTIVITY

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Can react briskly with oxidizers - danger of explosion.

**10.4. Conditions to avoid**

Incompatible materials. Ignition sources. Heat.

**10.5. Incompatible materials**

Strong oxidizing agents.

**10.6. Hazardous decomposition products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

## Section 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects**

**Acute toxicity**

**Product information**

Product does not present an acute toxicity hazard based on known or supplied information.

**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 may cause gastrointestinal irritation, nausea, vomiting and diarrhea  
Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting

**Unknown acute toxicity**

51.85266 % of the mixture consists of ingredient(s) of unknown toxicity

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The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 21,965.00 mg/kg  
ATEmix (dermal) 19,322.00 mg/kg  
ATEmix (inhalation-vapor) 772.00 mg/l

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Glycerol	= 12600 mg/kg ( Rat )	> 10 g/kg ( Rabbit )	> 570 mg/m <sup>3</sup> ( Rat ) 1 h

Skin corrosion/irritation Mild  
Serious eye damage/eye irritation Mild  
Sensitization Not applicable  
Germ cell mutagenicity Not applicable  
  
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  
Neurological effects No information available  
Target organ effects Eyes, Kidneys, Respiratory system, Skin.  
Other adverse effects No information available  
Symptoms No information available  
Aspiration hazard No information available

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

0.32759 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

### 12.2. Persistence and degradability

No information available

### 12.3. Bioaccumulative potential

No information available

### 12.4. Mobility in soil

No information available

### 12.5. Results of PBT and vPvB assessment

No information available

### 12.6. Other adverse effects

**Other adverse effects**  
No information available

**Endocrine disruptor information**  
No information available

**Ozone**  
No information available

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## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### Relevant Information

Keep out of drains, sewers, ditches and waterways.

#### Waste from Residues/Unused Products

Disposal should be in accordance with applicable regional, national and local laws and regulations. Send to a licensed recycler, reclaimer or incinerator.

#### Contaminated packaging

Empty containers must be tripled rinsed prior to disposal.

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## Section 14: TRANSPORT INFORMATION

### IMDG

14.1 UN/ID No	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing group	Not regulated
14.5 Marine pollutant	Not applicable
14.6 Special Provisions	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

### RID

14.1 UN/ID No	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

### ADR

14.1 UN/ID No	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

### ICAO (air)

14.1 UN/ID No	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

### IATA

14.1 UN/ID No	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

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## Section 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National Regulations

Occupational Illnesses (R-463-3, France)

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### International Inventories

All of the components in the product are on the following Inventory lists TSCA (United States);, Canada (DSL/NDSL), Australia (AICS), South Korea (KECL);, China (IECSC), Philippines (PICCS).

TSCA	Complies
EINECS	-
ELINCS	-
DSL	Complies
NDSL	Complies
PICCS	Complies
ENCS	-
IECSC	Complies
AICS	Complies
KECL	Complies

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
AICS - Australian Inventory of Chemical Substances  
KECL - Korean Existing and Evaluated Chemical Substances

### 15.2. Chemical safety assessment

No information available

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## Section 16: OTHER INFORMATION

### Key or legend to abbreviations and acronyms used in the safety data sheet

Prepared by	EH&S Manager 978-927-5054
Prepared by	New England BioLabs
Issue date	No data available
Revision note	SDS is valid 3 years from revision date. Contact info@neb.com for latest revision.

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006

#### Disclaimer

**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

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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**