

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 05/06/2014

Version 1.2

#### **SECTION 1.Identification**

# **Product identifier**

Product number 108643

Product name Triton® X-100 suitable for the biopharmaceutical production

EMPROVE® bio Ph Eur

CAS-No. 9002-93-1

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

Identified uses Pharmaceutical production, Reagent for analysis

# Details of the supplier of the safety data sheet

Company EMD Millipore Corporation | 290 Concord Road, Billerica, MA 01821,

United States of America | General Inquiries: +1-978-715-4321 | Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)

Emergency telephone 800-424-9300 CHEMTREC (USA)

+1-703-527-3887 CHEMTREC (International)

24 Hours/day; 7 Days/week

### **SECTION 2. Hazards identification**

### **GHS Classification**

Acute toxicity, Category 4, Oral, H302 Serious eye damage, Category 1, H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **GHS-Labeling**

Hazard pictograms





Signal Word
Danger

Hazard Statements
H302 Harmful if swallowed.
H318 Causes serious eye damage.

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Precautionary Statements

P280 Wear 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.

#### **OSHA Hazards**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS and may deviate from the GHS information.

#### Other hazards

None known.

## SECTION 3. Composition/information on ingredients

Chemical nature phenol ether

Formula  $(C_{16}H_{25}O)_{30}OH$   $C_{480}H_{751}O_{31}$  (Hill)

### Hazardous ingredients

Chemical Name (Concentration)

CAS-No.

Triton-X-100 (>= 90 % - <= 100 %)

9002-93-1

Exact percentages are being withheld as a trade secret.

### SECTION 4. First aid measures

# Description of first-aid measures

Inhalation

After inhalation: fresh air.

Skin contact

After skin contact: wash off with plenty of water. Remove contaminated clothing.

Eye contact

After eye contact: rinse out with plenty of water.

Ingestion

After swallowing: immediately make victim drink water (two glasses at most). Consult a

physician.

Never give anything by mouth to an unconscious person.

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

Irritation and corrosion, Dermatitis, Vomiting

Risk of corneal clouding.

Drying-out effect resulting in rough and chapped skin.

Risk of serious damage to eyes.

# Indication of any immediate medical attention and special treatment needed

No information available.

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### **SECTION 5. Fire-fighting measures**

## Extinguishing media

Suitable extinguishing media

Water, Carbon dioxide (CO2), Foam, Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

### Special hazards arising from the substance or mixture

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapors possible in the event of fire.

### Advice for firefighters

Special protective equipment for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

## SECTION 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

#### **Environmental precautions**

Do not let product enter drains.

### Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

## SECTION 7. Handling and storage

#### Precautions for safe handling

Observe label precautions.

#### Conditions for safe storage, including any incompatibilities

Tightly closed.

Store at +15°C to +25°C (+59°F to +77°F).

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## SECTION 8. Exposure controls/personal protection

#### Exposure limit(s)

Contains no substances with occupational exposure limit values.

#### **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

## Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

#### Hygiene measures

Change contaminated clothing. Application of skin- protective barrier cream recommended.

Wash hands after working with substance.

#### Eye/face protection

Tightly fitting safety goggles

### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

### Other protective equipment:

protective clothing

### Respiratory protection

required when vapors/aerosols are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### SECTION 9. Physical and chemical properties

Physical state liquid

Color colorless

Odor characteristic

Odor Threshold No information available.

pH No information available.

Melting point 6 °C

Boiling point/boiling range > 392 °F (> 200 °C)

at 1,013 hPa

Flash point 484 °F (251 °C)

Method: c.c.

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Evaporation rate No information available.

Flammability (solid, gas) No information available.

Lower explosion limit No information available.

Upper explosion limit No information available.

Vapor pressure No information available.

Relative vapor density No information available.

Density 1.065 g/cm<sup>3</sup>

at 68 °F (20 °C)

Relative density No information available.

Water solubility at 68 °F (20 °C)

soluble

Partition coefficient: n-

octanol/water

Autoignition temperature

No information available.

No information available.

Decomposition temperature No information available.

Viscosity, dynamic No information available.

Explosive properties Not classified as explosive.

Oxidizing properties none

# SECTION 10. Stability and reactivity

## Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

#### Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

## Possibility of hazardous reactions

Violent reactions possible with:

Strong oxidizing agents, Strong acids

#### Conditions to avoid

Strong heating.

#### Incompatible materials

no information available

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#### Hazardous decomposition products

no information available

## **SECTION 11. Toxicological information**

## Information on toxicological effects

Likely route of exposure
Eye contact, Skin contact

Target Organs

Eyes

Acute oral toxicity

LD50 rat: 1,800 mg/kg (RTECS)

absorption

Symptoms: Vomiting, Risk of aspiration upon vomiting., Pulmonary failure possible after aspiration of vomit., Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Acute inhalation toxicity

Symptoms: Possible damages:, mucosal irritations

Skin irritation

Possible damages: slight irritation Drying-out effect resulting in rough and chapped skin.

Dermatitis

Eve irritation

Risk of corneal clouding.

Causes serious eye damage.

Genotoxicity in vitro

Mutagenicity (mammal cell test): MOUSE LYMPHOMA TEST

Result: negative

(Lit.)

Specific target organ systemic toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ systemic toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

### Carcinogenicity

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

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NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

ACGIH No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

#### **Further information**

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

# **SECTION 12. Ecological information**

#### **Ecotoxicity**

Toxicity to fish

LC50 Lepomis macrochirus (Bluegill sunfish): 2,800 - 3,200 µg/l; 96 h (ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates

LC50 Daphnia magna (Water flea): 11.2 mg/l; 48 h (ECOTOX Database)

#### Persistence and degradability

No information available.

#### Bioaccumulative potential

No information available.

#### Mobility in soil

No information available.

## Other adverse effects

Surface tension 64.0 mN/m at 68 °F (20 °C)

Method: OECD Test Guideline 115

Additional ecological information

Discharge into the environment must be avoided.

### **SECTION 13. Disposal considerations**

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

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#### **SECTION 14. Transport information**

### Land transport (DOT)

Not classified as dangerous in the meaning of transport regulations.

#### Air transport (IATA)

Not classified as dangerous in the meaning of transport regulations.

### Sea transport (IMDG)

Not classified as dangerous in the meaning of transport regulations.

#### **SECTION 15. Regulatory information**

#### **United States of America**

#### **OSHA Hazards**

Harmful if swallowed.

Corrosive to eyes

Target organ effects

This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS, and may deviate from the GHS information on the label and in section 2.

# SARA 311/312 Hazards

Acute Health Hazard

Chronic Health Hazard

# **SARA 313**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **SARA 302**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311,

Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311,

Table 117.3.

# **DEA List I**

Not listed

### **DEA List II**

Not listed

## **US State Regulations**

### Massachusetts Right To Know

Remarks

No components are subject to the Massachusetts Right to Know Act.

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### Pennsylvania Right To Know

Ingredients
Triton-X-100

## **New Jersey Right To Know**

Ingredients
Triton-X-100

# California Prop 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### **Notification status**

TSCA: All components of the product are listed in the TSCA-inventory.

DSL: All components of this product are on the Canadian DSL.

# **SECTION 16. Other information**

### Training advice

Provide adequate information, instruction and training for operators.

### Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

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

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

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The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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