

SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Identification of the substance or mixture**

**Product code** 800602AF  
**Product name** Red Blood Cell (RBC) Lysis Buffer

**Company/undertaking identification**

**Manufacturer/Supplier**

Thermo Fisher Scientific Baltics UAB  
V.Graiciuno 8  
LT-02241 Vilnius  
Lithuania  
Tel.: +370 5 2602131  
Fax.: +370 5 2602142

**Emergency telephone number**

For Chemical Emergency (Spill, Leak, Fire, Exposure or Accident), call  
CHEMTREC Domestic North America: 1-800-424-9300 (24 hours)  
CHEMTREC International: 1-703-527-3887 (collect calls accepted)

**Country specific Emergency  
Number (if available):**

**For research use only. Not for human or animal therapeutic or diagnostic use.**

SECTION 2: Hazards identification

**GHS - Classification**

**Signal Word**

WARNING



**Health hazards**

Skin corrosion/irritation	Category 3
Serious eye damage/eye irritation	Category 2

**Physical hazards**

Not classified

**Hazard Statements**

H319 - Causes serious eye irritation  
 H316 - Causes mild skin irritation  
 H412 - Harmful to aquatic life with long lasting effects

**Precautionary Statements****Prevention**

P273 - Avoid release to the environment  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P264 - Wash hands thoroughly after handling

**Response**

P332 + P313 - If skin irritation occurs: Get medical advice/attention  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P337 + P313 - If eye irritation persists: Get medical advice/attention

**Storage**

Not Applicable

**Disposal**

P501 - Dispose of contents/ container to an approved waste disposal plant

**Principle Routes of Exposure****Potential Health Effects**

<b>eyes</b>	Irritating to eyes.
<b>Skin</b>	Irritating to skin.
<b>inhalation</b>	May be harmful by inhalation.
<b>Ingestion</b>	May be harmful if swallowed.

**Specific effects**

<b>Carcinogenic effects</b>	None.
<b>Mutagenic effects</b>	None.
<b>Reproductive toxicity</b>	None.
<b>Sensitization</b>	None.

<b>Target Organ Effects</b>	None.
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**HMIS**

Health	2
Flammability	0
Reactivity	0

### SECTION 3: Composition/information on ingredients

Component	CAS-No	EINECS-No	Weight %
Triton X-100 9002-93-1 ( 1 - 5 )	9002-93-1	-	1 - 5
sucrose 57-50-1 ( 10-30 )	57-50-1	-	10-30
SODIUM AZIDE 26628-22-8 ( <= 0.1 )	26628-22-8	-	<= 0.1

We recommend handling all chemicals with caution.

### SECTION 4: First aid measures

<b>Skin contact</b>	Wash off immediately with plenty of water. If symptoms persist, call a physician.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. If eye irritation persists: Get medical advice/attention.
<b>Ingestion</b>	Rinse mouth. Call a physician or poison control center immediately.
<b>inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. If symptoms persist, call a physician.
<b>Most important symptoms and effects, both acute and delayed</b>	
H319 - Causes serious eye irritation, H316 - Causes mild skin irritation, H412 - Harmful to aquatic life with long lasting effects	
<b>Notes to Physician</b>	Treat symptomatically.

### SECTION 5: Firefighting measures

<b>Suitable extinguishing media</b>	Dry chemical. Water spray.
<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective suit.
<b>Specific hazards arising from the chemical</b>	Not known

### SECTION 6: Accidental release measures

<b>Personal precautions</b>	Use personal protection equipment. Ensure adequate ventilation.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so.

See Section 12 for more information.

### SECTION 7: Handling and storage

<b>Handling</b>	Always wear recommended Personal Protective Equipment.
<b>Storage</b>	Keep in properly labeled containers. Keep in a dry, cool and well-ventilated place.

### SECTION 8: Exposure controls/personal protection

#### Exposure Limits

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Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Triton X-100	None	None	None	None
sucrose	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	None	10 mg/m <sup>3</sup>	None
SODIUM AZIDE	None	None	None	None

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection** Impervious gloves.

**Eye protection** Goggles.

**Skin and Body Protection** Lightweight protective clothing.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Prevent product from entering drains.

## SECTION 9: Physical and chemical properties

### General information

<b>Form</b>	Liquid	
<b>Appearance</b>	Colorless	
<b>Odor</b>	odorless	
<b>Odor Threshold</b>	No information available	
<b>Boiling point / boiling range</b>	°C No data available	°F No data available
<b>Melting point / melting range</b>	°C No data available	°F No data available
<b>flash point</b>	°C No data available	°F No data available
<b>Autoignition Temperature</b>	°C No data available	°F No data available
<b>Evaporation rate</b>	No data available	
<b>Flammability (solid, gas)</b>	No data available	
<b>Oxidizing properties</b>	No information available	
<b>Water solubility</b>	No data available	
<b>Upper explosion limit</b>	No data available	
<b>Lower explosion limit</b>	No data available	
<b>Partition coefficient: n-octanol/water</b>	No data available	
<b>Vapor Pressure</b>	No data available	
<b>vapor density</b>	No data available	
<b>pH value</b>	No data available	

## SECTION 10: Stability and reactivity

**Stability** Stable under normal conditions.

**Materials to avoid** No information available.

**Possibility of hazardous** Hazardous reaction has not been reported

## reactions

**Hazardous decomposition products** No information available.

**polymerization** Hazardous polymerization does not occur.

**Conditions to avoid** None under normal processing.

## SECTION 11: Toxicological information

### Acute Toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Triton X-100	= 1800 mg/kg (Rat)	No data available	No data available
sucrose	= 29700 mg/kg (Rat)	No data available	No data available
SODIUM AZIDE	= 27 mg/kg (Rat)	No data available	No data available

### Principle Routes of Exposure

#### Potential Health Effects

**eyes** Irritating to eyes.  
**Skin** Irritating to skin.  
**inhalation** May be harmful by inhalation.  
**Ingestion** May be harmful if swallowed.

**Carcinogenic effects** None.  
**Mutagenic effects** None.  
**Reproductive toxicity** None.  
**Sensitization** None.

**Target Organ Effects** None

## SECTION 12: Ecological information

**Ecotoxicity** No information available.  
**Acute aquatic toxicity** Category 3.  
**Mobility** No information available.  
**Biodegradation** No information available.  
**Bioaccumulation** No information available.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
Triton X-100	EC50: 0.21 mg/L (96hr)				

## SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

## SECTION 14: Transport information

### IATA

**Proper Shipping Name** No dangerous good in sense of these transport regulations  
**Hazard Class** None

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**Subsidiary class**                   None  
**Packing group**                   None  
**UN-No**                               None  
**Environmental hazards**       None

SECTION 15: Regulatory information

Component	US TSCA
Triton X-100 9002-93-1 ( 1 - 5 )	Listed
sucrose 57-50-1 ( 10-30 )	Listed
SODIUM AZIDE 26628-22-8 ( <= 0.1 )	Listed

**US Federal Regulations**

**SARA 313**

This product is not regulated by SARA.

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight %</u>	<u>SARA 313 - Threshold Values</u>
SODIUM AZIDE	26628-22-8	<= 0.1	1.0

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contains HAPs.

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**WHMIS Hazard Class**

D2B - Toxic materials



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16: Other information

**Reason for revision**                   SDS sections updated.

For research use only. Not for human or animal therapeutic or diagnostic use.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"

**End of Safety Data Sheet**