

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

### Identification of the substance or mixture

**Product code** K0502COMPONENTB  
**Product name** Lysis Solution

### 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 intended for human or animal diagnostic or therapeutic uses.**

## SECTION 2: Hazards identification

### GHS - Classification

#### Signal Word

DANGER



#### Health hazards

Skin corrosion/irritation

Category 1 A

#### Physical hazards

Not Hazardous

#### Hazard Statements

H314 - Causes severe skin burns and eye damage

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## Precautionary Statements

### Prevention

Not Applicable

### Response

Not Applicable

### Storage

Not Applicable

### Disposal

Not Applicable

## Precautionary Statements

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P363 - Wash contaminated clothing before reuse

P264 - Wash hands thoroughly after handling

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

## Principle Routes of Exposure

### Potential Health Effects

eyes

Irritating to eyes.

Skin

Irritating to skin.

inhalation

May cause irritation of respiratory tract.

Ingestion

May be harmful if swallowed.

### Specific effects

Carcinogenic effects

None.

Mutagenic effects

None known.

Reproductive toxicity

None.

Sensitization

None known.

Target Organ Effects

No known effects under normal use conditions.

## HMIS

Health	1
Flammability	0
Reactivity	0

### SECTION 3: Composition/information on ingredients

Component	CAS-No	EINECS-No	Weight %
sodium dodecyl sulfate 151-21-3 ( 1-5 )	151-21-3	205-788-1	1-5
Sodium hydroxide 1310-73-2 ( 0.1-1 )	1310-73-2	215-185-5	0.1-1

### SECTION 4: First aid measures

<b>Skin contact</b>	Wash off immediately with plenty of water.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician if irritation persists.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person.
<b>inhalation</b>	Remove to fresh air.
<b>Most important symptoms and effects, both acute and delayed</b>	
H314 - Causes severe skin burns and eye damage	

**Notes to Physician** Treat symptomatically.

### SECTION 5: Firefighting measures

<b>Suitable extinguishing media</b>	Dry chemical.
<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.
<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.

### SECTION 8: Exposure controls/personal protection

#### Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
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sodium dodecyl sulfate	None	None	None	None
Sodium hydroxide	2 mg/m <sup>3</sup>	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** Wear safety glasses with side shields (or 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>	Soluble in water	
<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** No information available.

**Materials to avoid** No information available.

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

<b>Hazardous decomposition products</b>	No information available.
<b>polymerization</b>	No information available.
<b>Conditions to avoid</b>	None under normal processing.

## SECTION 11: Toxicological information

### Acute Toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
sodium dodecyl sulfate	= 1288 mg/kg (Rat)	No data available	>3900mg/m <sup>3</sup> (Rat)
Sodium hydroxide	500 mg/kg	1350 mg/kg (Rabbit)	No data available

### Principle Routes of Exposure Potential Health Effects

<b>eyes</b>	Irritating to eyes.
<b>Skin</b>	Irritating to skin.
<b>inhalation</b>	May cause irritation of respiratory tract.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Carcinogenic effects</b>	None.
<b>Mutagenic effects</b>	None known.
<b>Reproductive toxicity</b>	None.
<b>Sensitization</b>	None known.

## SECTION 12: Ecological information

<b>Ecotoxicity</b>	Daphnia magna.
<b>Mobility</b>	see log Pow.
<b>Biodegradation</b>	No information available.
<b>Bioaccumulation</b>	No information available.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
<b>sodium dodecyl sulfate</b>	Pseudokirchneriella subcapitata EC50=117 mg/L (96 h) Desmodesmus subspicatus EC50=53 mg/L (72 h) Desmodesmus subspicatus EC5030 - 100 mg/L (96 h) Pseudokirchneriella subcapitata EC503.59 - 15.6 mg/L (96 h)	Daphnia magna EC50=1.8 mg/L (48 h)			logPow1.6

## SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

## SECTION 14: Transport information

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**IATA**

<b>Proper Shipping Name</b>	Sodium hydroxide solution
<b>Hazard Class</b>	8
<b>Subsidiary class</b>	None
<b>Packing group</b>	III
<b>UN-No</b>	1824
<b>Environmental hazards</b>	None

**SECTION 15: Regulatory information**

Component	US TSCA
sodium dodecyl sulfate 151-21-3 ( 1-5 )	Listed
Sodium hydroxide 1310-73-2 ( 0.1-1 )	Listed

**US Federal Regulations****SARA 313**

This product is not regulated by SARA.

**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.

"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"

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**End of Safety Data Sheet**

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