

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

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.
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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

Skin contact	Wash off immediately with plenty of water.
Eye contact	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.
Ingestion	Never give anything by mouth to an unconscious person.
inhalation	Remove to fresh air.
Most important symptoms and effects, both acute and delayed	

H314 - Causes severe skin burns and eye damage

Notes to Physician Treat symptomatically.

SECTION 5: Firefighting measures

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

SECTION 6: Accidental release measures

Personal precautions	Use personal protection equipment.
Methods for cleaning up	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

Handling	Always wear recommended Personal Protective Equipment.
Storage	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)

sodium dodecyl sulfate	None	None	None	None
Sodium hydroxide	2 mg/m ³	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

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

Hazardous decomposition products No information available.

polymerization No information available.

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)
sodium dodecyl sulfate	= 1288 mg/kg (Rat)	No data available	>3900mg/m ³ (Rat)
Sodium hydroxide	500 mg/kg	1350 mg/kg (Rabbit)	No data available

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

SECTION 12: Ecological information

Ecotoxicity Daphnia magna.

Mobility see log Pow.

Biodegradation No information available.

Bioaccumulation No information available.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
sodium dodecyl sulfate	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

IATA

Proper Shipping Name	Sodium hydroxide solution
Hazard Class	8
Subsidiary class	None
Packing group	III
UN-No	1824
Environmental hazards	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 contain 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 WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

End of Safety Data Sheet