

Safety Data Sheet

Version 1.1

Revision date: Jan 21, 2018



Lysis Buffer LB-PM2

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier: Lysis Buffer LB-PM2

Product code: #NKR139

Manufacturer's name and address: Luna Nanotech Inc., 439 University Avenue, 5th Floor
Toronto, ON M5G 1Y8

Business telephone number: 1-800-474-4055

Emergency telephone numbers: Canada: Canutec 1-888-226-8832
USA: Chemtrec 1-800-424-9300

Product use: For research use only. Not intended for human or animal diagnostic or therapeutic uses.

SECTION 2: HAZARDS IDENTIFICATION

Ingredients: Sodium Dodecyl Sulfate

CAS #: 151-21-3

GHS classification

Corrosive to metals: Category 1
Skin irritant: Category 1
Eye irritant: Category 2A

Signal word: Warning

Hazard statements:

H290: May be corrosive to metals.
H315: Causes skin irritation.
H319: Causes serious eye irritation.



Precautionary statements

P280: Wear protective gloves and eye protection.

Other health effects: Not known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Hazardous ingredients

Chemical name: Sodium Dodecyl Sulfate
CAS number: 151-21-3
EC number: 205-788-1

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Concentration: 1 – 10 % w/v

SECTION 4: FIRST AID MEASURES

General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact:	Wash off with soap and plenty of water. Consult a physician.
In case of eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5: FIREFIGHTING MEASURES

Conditions of flammability:	Not Flammable or combustible
Flash point:	Not determined
Means of extinction:	Use water spray, alcohol-resistant foam, dry chemical or CO ₂
Special protective equipment for firefighters:	Wear self-contained breathing apparatus for firefighting if necessary.
Explosion data	
Sensitivity to mechanical impact:	Not sensitive
Sensitivity of static discharge:	Not sensitive
Hazardous decomposition products formed under fire conditions:	Carbon oxides, Nitrogen oxides (NO _x), Sulfur oxides

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protective equipment. Avoid contact with the skin and the eyes. Use personal protective equipment. Ensure adequate ventilation.
Environmental precautions:	Do not let product enter drains.
Methods and materials for containment and cleaning up:	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to

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local regulations.

SECTION 7. HANDLING AND STORAGE

Handling: Wear personal protective equipment. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: If exposure limits are exceeded or irritation is experienced, respiratory protection approved under NIOSH/MSHA must be worn. For high airborne contaminant concentration positive-pressure supplied air respirators may be required.

Eye protection: Wear safety glasses with side shields conforming to EN166. Avoid contact with the eyes.

Skin and body protection: Wear protective gloves and clothing.

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

Specific engineering controls: Use appropriate mechanical exhaust or laboratory fume hood to avoid exposure.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Color:	Clear
Odor:	Not available
Taste:	Not available
pH:	12-13
Boiling point:	Not available
Melting point:	Not available
Flash point:	Not available
Evaporation rate:	Not available
Explosion limits:	Not available
Specific gravity:	1.08 g/cm ³
Vapor pressure:	Not available
Vapor density:	Not available
Volatility:	Not available
Solubility in water:	Not available
Solubility in other solvents:	Not available
Thermal decomposition:	Not available

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Viscosity: Not available

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions

Incompatible products: Strong oxidizing agents, acid or alkaline products

Conditions to avoid: Not available.

Hazardous decomposition products

Under fire conditions: Carbon oxides, nitrogen oxides, sulfur oxide

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Product

Acute oral toxicity: > 5,000 mg/kg (estimated by calculation)
Acute inhalation toxicity: Not available
Acute dermal toxicity: > 5,000 mg/kg (estimated by calculation)

Ingredients

Sodium dodecyl sulfate

Acute oral toxicity: LD50 Oral (Rat): 1,228 mg/kg
Acute inhalation toxicity: LC50 (Rat): 3.9 mg/L. Exposure time: 1 h. Test atmosphere: dust/mist
Acute dermal toxicity: LD50 Dermal (Rabbit): 580 mg/kg

Skin corrosion/irritation

Product: May irritate skin.

Ingredients

Sodium dodecyl sulfate: Species: Rabbit. Exposure time: 24 h. Result: Irritating to skin.

Serious eye damage/eye irritation

Product: Causes serious eye irritation.

Ingredients

Sodium dodecyl sulfate: Species: Rabbit. Result: Risk of serious damage to eyes. Method: OECD Test Guideline 405

Respiratory or skin sensitization: Not available

Germ cell mutagenicity: Not available

Carcinogenicity: Not available

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Reproductive toxicity:	Not available
STOT-singe exposure:	Not available
STOT-repeated exposure:	Not available
Aspiration toxicity:	Not available
Further information:	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Product: Not available

Ingredients

Sodium dodecyl sulfate

Toxicity to fish: NOEC (Oncorhynchus mykiss (rainbow trout)): 19.5 mg/L. Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)): 3.6 mg/L. Exposure time: 96 h

Toxicity to algae: (Pseudokirchneriella subcapitata (green algae)): 2.68 mg/L. Exposure time: 150 h. Test Type: Growth inhibition.

Persistence and degradability: Not available

Bioaccumulation: Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Product: The product should not be allowed to enter drains, watercourses or the soil. Disposing should be performed in compliance with local and national regulation by a licensed waste management company.

Contaminated packaging: Dispose of as unused product. Do not reuse empty containers.

SECTION 14: TRANSPORT INFORMATION

DOT (49 CFR, US):

UN/ID/NA number: UN 1824
Proper shipping name: SODIUM HYDROXIDE SOLUTION
Class: 8
Packing group: III

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Labels: Class 8 – Corrosive
ERG Code: 154
Marine pollutant: No

IATA:

UN/ID No.: UN 1824
Proper shipping name: Sodium hydroxide solution
Class: 8
Packing group: III
Labels: Corrosive

IMDG:

UN number: UN 1824
Proper shipping name: SODIUM HYDROXIDE SOLUTION
Class: 8
Packing group: III
Labels: 8
EmS Code: F-A, S-B
Marine pollutant: no

SECTION 15: REGULATORY INFORMATION

WHMIS Classification

E Corrosive Material Not available

SECTION 16: OTHER INFORMATION

The above information provided in this Materials Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of publication. The information given is designed only as a guidance for safe handling, processing, use, transportation, storage, disposal and release. This information is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Material Safety Data Sheet