



# SAFETY DATA SHEET

Reviewed 19-Jan-2026 by NMG  
exp date 3- March-2028

## 1. Identification

**Product identifier** NUCLISENS EASYMAG LYSIS BUFFER / NUCLISENS LYSIS BUFFER

### Other means of identification

**SDS number** 931

**Product code** 280134 - 200292

**Recommended use** In vitro diagnostic medical device

**Recommended restrictions** None known.

### Manufacturer/Importer/Supplier/Distributor information

#### Manufacturer

**Company name** bioMérieux SA  
**Address** Chemin de l'Orme  
France

**Telephone** Not available.

**E-mail** Not available.

**Emergency phone number** Not available.

**Supplier** Not available.

## 2. Hazard identification

**Physical hazards** Not classified.

|                              |  |             |
|------------------------------|--|-------------|
| <b>Health hazards</b>        | Acute toxicity, oral                                   | Category 4  |
|                              | Acute toxicity, dermal                                 | Category 4  |
|                              | Acute toxicity, inhalation                             | Category 4  |
|                              | Skin corrosion/irritation                              | Category 1C |
|                              | Serious eye damage/eye irritation                      | Category 1  |
| <b>Environmental hazards</b> | Hazardous to the aquatic environment, acute hazard     | Category 3  |
|                              | Hazardous to the aquatic environment, long-term hazard | Category 3  |

### Label elements



**Signal word** Danger

**Hazard statement** Harmful if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.

### Precautionary statement

**Prevention** Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

**Response** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTRE or doctor/physician.

**Storage** Not available.

**Disposal** Not available.

**Supplemental information** Contact with acids liberates very toxic gas.

**Other hazards**

None known.

**3. Composition/information on ingredients****Mixtures**

| Chemical name                            | Common name and synonyms | CAS number | %         |
|--|--------------------------|------------|-----------|
| Guanidinium thiocyanate                  |                          | 593-84-0   | 50 - < 60 |
| Triton X100                              |                          | 9002-93-1  | 1 - < 3   |
| Other components below reportable levels |                          |            | 40 - < 50 |

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

#: This substance has been assigned Community workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. \*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

**Composition comments**

The full text for all R- and H-phrases is displayed in section 16.

**4. First-aid measures****Inhalation**

Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Call a physician if symptoms develop or persist.

**Skin contact**

Take off immediately all contaminated clothing. Immediately flush skin with plenty of water. Get medical attention if irritation develops and persists. For minor skin contact, avoid spreading material on unaffected skin.

**Eye contact**

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control centre immediately.

**Ingestion**

If swallowed, seek medical advice immediately and show this container or label. Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance.

**Most important symptoms/effects, acute and delayed**

Irritation of eyes and mucous membranes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation.

**Indication of immediate medical attention and special treatment needed**

In case of shortness of breath, give oxygen. Symptoms may be delayed.

**General information**

Take off contaminated clothing and shoes immediately. Show this safety data sheet to the doctor in attendance.

**5. Fire-fighting measures****Suitable extinguishing media**Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).**Unsuitable extinguishing media**

Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical**

During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire fighting equipment/instructions**

Move containers from fire area if you can do so without risk.

**Specific methods**

Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards**

No unusual fire or explosion hazards noted.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapours and spray mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

|  |  |
|--|--|
| <b>Methods and materials for containment and cleaning up</b> | <p>Prevent product from entering drains.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p> |
| <b>Environmental precautions</b>                             | Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.   |

## 7. Handling and storage

|   |  |
|---|--|
| <b>Precautions for safe handling</b>                                | Avoid inhalation of vapours and spray mists. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Keep container tightly closed. Store in a well-ventilated place. Do not store near acids. Store away from incompatible materials (see Section 10 of the SDS).  |

## 8. Exposure controls/personal protection

|  |  |
|--|--|
| <b>Occupational exposure limits</b>  | No exposure limits noted for ingredient(s).  |
| <b>Biological limit values</b>   | No biological exposure limits noted for the ingredient(s).   |
| <b>Appropriate engineering controls</b>                                      | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. |
| <b>Individual protection measures, such as personal protective equipment</b> |  |
| <b>Eye/face protection</b>   | Face shield is recommended. Wear safety glasses with side shields (or goggles).  |
| <b>Skin protection</b>   |  |
| <b>Hand protection</b>   | Wear protective gloves. Use protective gloves made of: Nitrile.  |
| <b>Other</b>   | Wear suitable protective clothing. Wear protective gloves.   |
| <b>Respiratory protection</b>  | No personal respiratory protective equipment normally required.  |
| <b>Thermal hazards</b>   | Not available.   |

**General hygiene considerations** When using, do not eat, drink or smoke. Wash hands after handling and before eating.

## 9. Physical and chemical properties

|   |                                     |
|---|-------------------------------------|
| <b>Physical state</b>   | Liquid.                             |
| <b>Colour</b>   | Clear colorless or nearly colorless |
| <b>Odour</b>  | Not available.                      |
| <b>Melting point/freezing point</b>                             | Not available.                      |
| <b>Boiling point or initial boiling point and boiling range</b> | Not available.                      |
| <b>Flammability</b>   | Not applicable.                     |
| <b>Upper/lower flammability or explosive limits</b>             |                                     |
| <b>Explosive limit - lower (%)</b>                              | Not available.                      |
| <b>Explosive limit – upper (%)</b>                              | Not available.                      |
| <b>Flash point</b>  | Not available.                      |
| <b>Auto-ignition temperature</b>                                | Not available.                      |
| <b>Decomposition temperature</b>                                | Not available.                      |

|  |                |
|--|----------------|
| <b>pH</b>  | 7              |
| <b>Kinematic viscosity</b>                                     | Not available. |
| <b>Solubility</b>  |                |
| <b>Solubility (water)</b>                                      | Not available. |
| <b>Partition coefficient<br/>(n-octanol/water) (log value)</b> | Not available. |
| <b>Vapour pressure</b>   | Not available. |
| <b>Density and/or relative density</b>                         | Not available. |
| <b>Vapour density</b>  | Not available. |
| <b>Particle characteristics</b>                                | Not available. |
| <b>Other information</b>                                       |                |
| <b>Explosive properties</b>                                    | Not explosive. |
| <b>Oxidising properties</b>                                    | Not oxidising. |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.  |
| <b>Incompatible materials</b>             | Acids. Strong oxidising agents.   |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.  |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Harmful if inhaled.                                      |
| <b>Skin contact</b> | Harmful in contact with skin.                            |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation. |
| <b>Ingestion</b>    | Harmful if swallowed.                                    |

|   |   |
|---|---|
| <b>Symptoms related to the physical, chemical and toxicological characteristics</b> | Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation. |
|---|---|

### Information on toxicological effects

|   |  |
|---|--|
| <b>Acute toxicity</b>                                     | Harmful if inhaled. Harmful by inhalation. Harmful in contact with skin. Harmful if swallowed.                   |
| <b>Skin corrosion/irritation</b>                          | Prolonged skin contact may cause temporary irritation.   |
| <b>Serious eye damage/eye irritation</b>                  | Direct contact with eyes may cause temporary irritation.   |
| <b>Respiratory or skin sensitisation</b>                  |  |
| <b>Respiratory sensitisation</b>                          | Not a respiratory sensitiser.  |
| <b>Skin sensitisation</b>                                 | This product is not expected to cause skin sensitisation.  |
| <b>Germ cell mutagenicity</b>                             | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| <b>Carcinogenicity</b>                                    | Not available.   |
| <b>Reproductive toxicity</b>                              | This product is not expected to cause reproductive or developmental effects.                                     |
| <b>Specific target organ toxicity - single exposure</b>   | Not classified.  |
| <b>Specific target organ toxicity - repeated exposure</b> | Not classified.  |
| <b>Aspiration hazard</b>                                  | Not an aspiration hazard.  |

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects. The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Product   | Species | Test Results                       |
|---|---------|------------------------------------|
| NUCLISENS EASYMAG LYSIS BUFFER / NUCLISENS LYSIS BUFFER |         |                                    |
| <b>Aquatic</b>  |         |                                    |
| Fish  | LC50    | Fish                               |
|   |         | 4013.7144 mg/l, 96 hours estimated |

| Components                  | Species | Test Results                   |
|-----------------------------|---------|--------------------------------|
| Triton X100 (CAS 9002-93-1) |         |                                |
| <b>Aquatic</b>              |         |                                |
| <i>Acute</i>                |         |                                |
| Fish                        | LC50    | Bluegill (Lepomis macrochirus) |
|                             |         | > 2.8 - < 3.2 mg/l, 96 hours   |

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Avoid discharge into water courses or onto the ground.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

### TDG

|                              |   |
|------------------------------|---|
| UN number                    | UN1760  |
| UN proper shipping name      | Corrosive liquids, n.o.s.   |
| Transport hazard class(es)   |   |
| Class                        | 8   |
| Subsidiary hazard            | -   |
| Packing group                | III   |
| Environmental hazards        | No.   |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |

### IATA

|                              |   |
|------------------------------|---|
| UN number                    | UN1760  |
| UN proper shipping name      | Corrosive liquids, n.o.s. (Guanidinium thiocyanate)                     |
| Transport hazard class(es)   |   |
| Class                        | 8   |
| Subsidiary hazard            | -   |
| Label(s)                     | 8   |
| Packing group                | III   |
| Environmental hazards        | No.   |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |

## IMDG

|  |   |
|--|---|
| UN number  | UN1760  |
| UN proper shipping name  | Corrosive liquids, n.o.s. (Guanidinium thiocyanate)                     |
| Transport hazard class(es)   |   |
| Class  | 8   |
| Subsidiary hazard  | -   |
| Label(s)   | 8   |
| Packing group  | III   |
| Environmental hazards  |   |
| Marine pollutant   | No.   |
| EmS  | Not assigned.   |
| Special precautions for user   | Read safety instructions, SDS and emergency procedures before handling. |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not established.  |

## IATA; IMDG; TDG



## 15. Regulatory information

**Canadian regulations** This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

### Controlled Drugs and Substances Act

Not regulated.

### Export Control List (CEPA 1999, Schedule 3)

Not listed.

### Greenhouse Gases

Not listed.

### Precursor Control Regulations

Not regulated.

## International regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

### Stockholm Convention

Not applicable.

### Rotterdam Convention

Not applicable.

### Kyoto Protocol

Not applicable.

### Montreal Protocol

Not applicable.

### Basel Convention

Not applicable.

## International Inventories

| Country(s) or region | Inventory name                                       | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Industrial Chemicals (AICIS) | Yes                    |
| Canada               | Domestic Substances List (DSL)                       | Yes                    |
| Canada               | Non-Domestic Substances List (NDSL)                  | No                     |

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                     |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)  | No                     |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                             | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

|                             |  |
|-----------------------------|--|
| <b>Issue date</b>           | 07-March-2023  |
| <b>Revision date</b>        | 03-March-2025  |
| <b>Version No.</b>          | 02   |
| <b>References</b>           | ACGIH<br>EPA: AQUIRE database<br>NLM: Hazardous Substances Data Base<br>US. IARC Monographs on Occupational Exposures to Chemical Agents   |
| <b>Disclaimer</b>           | bioMérieux SA cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. |
| <b>Revision information</b> | Hazard identification: Prevention  |