

**Corporate Office : “Gitanjali”, Tulip Block, Dr. Antonio Do Rego Bagh, Alto Santacruz,
Bambolim Complex Post Office, Goa – 403 202. INDIA.
Tel.: (0832) 2458546 – 51, Fax: (0832) 2458544**

Material Safety Data Sheet

1. Product Identification

Product Name : Lyse
Catalog Number : LYS 010 / LYS 011 / LYS 012

2. Composition and Information on Ingredients

Hazardous Ingredients per EU criteria: Quaternary Ammonium Salts<6.5%

3. Hazard Identification

Potential Health Effect

Irritation of skin, eyes, and mucous membrane may be resulted in by Exposure.

Product Hazard Classifications	EU Xi; R36/37/38	US OSHA Yes	WHMIS Exempt
--------------------------------	---------------------	----------------	-----------------

Reactivity: Minima risk

4. First Aid Measures

Ingestion

Call physician for medical attention if the product is taken internally. Do not attempt to induce vomiting, or to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious.

Inhalation

Remove exposed individual to fresh air. If irritation or signs of toxicity occur, seek medical advice immediately.

Skin Contact

Wash the skin area with soap and water. Rinse with copious amount of water.

Eye Contact

Wash immediately with clean and flowing water. Continue for at least 15 minutes. Obtain medical advice if pain or irritation occurs.

5. Fire Fighting Measures

Fire and Explosion Hazard

Not applicable

Extinguishing Media

Use extinguishing media for surrounding fire.

Special Fire and Explosion Hazard

No special hazards

Hazardous Combustion

Products No combustion products posing significant hazards are expected from this product.

Protective Equipment for Firefighters

Self-contained breathing apparatus and full protective equipment are recommended for firefighters.

6. Accidental Release Measures

Personal Precautions

Use good laboratory procedures

Clean-up Methods

Wipe up spill and place in containers suitable for disposal.

Environmental Precautions

For large spills, take precautions to prevent entry into waterways, sewers, or surface waters.

7. Handling and Storage

Safe Handling

Avoid contact with eyes. Use good laboratory procedures.

Recommended Storage Conditions

Keep in the original packaging at the labeled temperature.

Protection against Explosion And Fires

No special measures required. Refer to the product label for additional information on storage conditions.

8. Exposure Controls and Personal Protection

Engineering Controls

Use in well-ventilated rooms. No special engineering controls are required.

Respiratory Protection

Under normal conditions. No respiratory protection is required of the use of this product.

Hand Protection

Impervious gloves are recommended if hand contact with the material is anticipated.

Eye Protection

Safety glasses or goggles are recommended if danger of splashes may be present.

Skin Protection

Laboratory coat or appropriate clothing is needed when working with the product.

9. Physical And Chemical Properties

Appearance : Liquid Color: Colorless, Transparent.

Odor: Pungent

pH: 9.6 – 10.0

Boiling Point: NA

Melting Point: NA

Flash Point: NA

Flammability: Not flammable

Auto Flammability: Not flammable

Density: NA

Solubility: Water: Miscible

Fat: NA

Stability Stable: under normal temperatures and pressures.

Materials to Avoid: Incompatible with acids, bases and strong oxidizers.

Conditions to Avoid: None determined.

Hazardous Decomposition Products: No dangerous decomposition products known.

10. Toxicological Information

Toxicity Data NA

Routes of Exposure: Skin, eyes, inhalation and ingestion

Potential Effects of Acute Exposure: May cause irritation of the nose, throat, skin, and eyes.

Potential Effects of Chronic Exposure: Long-term exposure may result in liver toxic.

Symptoms of Overexposure: Chronic overexposure may produce effects similar to acute exposure.

Carcinogenicity: This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by 67/548/EEC Annex I .

11. Ecological Information

General Notes: Do not introduce undiluted product or large quantities of it to reach surface water, water supply, or sewage system.

12. Disposal Considerations

Waste Disposal Dispose unused product, packaging in accordance with local regulations. If unsure of the applicable requirements, contact the authorities for information.

13. Regulatory Information

NA.

14. Other Information

NA => NOT APPLICABLE or NO INFORMATION