

MATERIAL SAFETY DATA SHEET

LUTA-50 50% IN ETHANOL [POLY(ETHYL VINYL ETHER) 50% IN ETHANOL]

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: LUTA-50 50% in ethanol [Poly(ethyl vinyl ether)
50% in ethanol]
CAS Number: 25104-37-4 & 64-17-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use: Laboratory research purposes

1.3 Details of the supplier of the safety data sheet

Company name: East Harbour Group Ltd
Miranda House, The Quay
Harwich, Essex, CO12 3HH
United Kingdom
Telephone: +44 (0) 333 242 0100
Email: info@eastharbourgroup.com

1.4 Emergency telephone number

Emergency telephone: +44 (0) 333 242 0100 (U.K office hours only)

Section 2: Hazardous identification

2.1 Classification of the substance or mixture

OSHA Haz Com: CFR 1910.1200: Acute Toxicity - Oral [Category 4]
Skin Corrosion/Irritation [Category 2]
Eye Damage/Irritation [Category 2A]

2.2 Label elements

Signal word: Warning
Hazard Statement(s): Causes serious eye irritation
Causes skin irritation
Harmful if swallowed

Pictogram(s) or Symbol(s):



Precautionary Statement(s):

Prevention: Do not eat, drink, or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection.

Response: **If swallowed:** Immediately call a poison centre or doctor. Rinse mouth.
If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Storage None

Disposal Dispose of content and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40CFR 261.3 (see section 13)

Section 3: Composition/information on ingredients

Substance/Mixture:	Substance
Components 1:	POLY (VINYL ETHYL ETHER)
Percent:	48-52%
Components 2:	Ethanol
Percent:	52-48%
CAS Number:	25104-37-4 & 64-17-5
Molecular Weight:	212.38 & 46.07
Chemical Formula:	C4H8N2S4 & C2H6O

Section 4: First aid measures

4.1 Description of first aid measures

Inhalation: Call a poison centre or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Skin contact: Call a poison centre or doctor if you feel unwell. Remove and wash contaminated clothing before re-use. Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Eye contact: IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with material may irritate or burn eyes. Call emergency medical service. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Ingestion: Harmful if swallowed. Do not induce vomiting without medical advice. If swallowed, seek medical advice immediately and show the container or label. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt, or waistband. If a person vomits place them in the recovery position so that vomit will not re-enter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

4.2 Most important symptoms and effects, both acute and delayed

Acute: Redness.
Delayed: No data available

4.3 Indication of any immediate medical attention and special treatment needed

WARNING: It might be hazardous to the person providing aid to give mouth-to-mouth respiration, because the inhaled material is harmful. If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Section 5: Fire-fighting measures

5.1 Fire Fighting Media and Instructions:

Suitable extinguishing media: Dry chemical, CO₂, sand, earth, water spray or regular foam Consult with local fire authorities before attempting large scale firefighting operations.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

Hazardous combustion products: These products include: Carbon oxides Nitrogen oxides Sulphur oxides

Halogenated compounds Other specific hazards: **WARNING:** Highly toxic HCl gas is produced

5.3 Advice for firefighters

Special protective equipment: Wear positive pressure self-contained breathing apparatus (SCBA).

Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Special precautions: Use water spray or fog; do not use straight streams. Dike fire-control water for later disposal; do not scatter the material. Containers may explode when heated. Move containers from fire area if you can do it without risk

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Personal precautions:

Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel

Personal protective equipment:

Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).

Emergency procedures: Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and exercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements, or confined areas; dikes if needed.

6.2 Environmental precautions

Methods and materials for containment and cleaning up: ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material.

6.3. Methods and material for containment and cleaning up

Environmental Precautions: Keep away from living quarters. Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements, or confined areas; dikes if needed.

Section 7: Handling and storage

7.1 Precautions for safe handling

Avoid inhalation of vapor or mist. Do not ingest. Avoid contact with skin and eyes. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves, and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in the original container in a cool well-ventilated place. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods. Store under inert gas (e.g., Argon). Hygroscopic material, store in a tightly sealed container. Store in refrigerator.

7.3 Storage incompatibilities:

Store away from oxidizing agents.

Section 8: Exposure controls/personal protection

8.1 Control parameters

No data available.

8.2 Exposure controls

Appropriate engineering controls

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

8.3 Personal protective equipment

Respiratory protection: Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.

Hand protection: Nitrile gloves.

Eye protection: Safety glasses.

Skin and body protection: Lab coat.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Colourless to light yellow liquid
Melting point:	No data available
Boiling point:	78.5 °C
Flash point:	Approx. 9°C
Relative density:	No data available
Kinematic Viscosity:	No data available

Partition coefficient: No data available
 Flammability (solid, gas): No data available

Section 10: Stability and Reactivity

10.1 Reactivity No data available
 10.2 Chemical Stability No data available
 10.3 Possibility of hazardous reactions No data available
 10.4 Conditions to avoid No data available
 10.5 Incompatible materials No data available
 10.6 Hazardous decomposition products No data available

Section 11: Toxicological Information

Acute Toxicity: No data available
 Skin corrosion/irritation: No data available
 Serious eye damage/irritation: No data available
 Respiratory or skin sensitization: No data available
 Germ cell mutagenicity: No data available
 Carcinogenicity: No data available
IARC: No data available **NTP:** No data available **OSHA:** No data available
Reproductive toxicity: No data available
Routes of Exposure: Inhalation, Eye contact, Ingestion, Skin contact.
Symptoms related to exposure: Overexposure may result in serious illness or death. Skin contact may result in inflammation; characterized by itching, scaling, reddening, or occasionally blistering. Skin contact may result in redness, pain, or dry skin. Eye contact may result in redness or pain.
Potential Health Effects: Skin and eye contact may result in irritation.
Target organ(s): No data available

Section 12: Ecological Information

12.1 Toxicity

Ecotoxicity effects

Fish: No data available
 Crustacea: No data available
 Algae: No data available
 Persistence and degradability: No data available
 Bioaccumulative potential (BCF): No data available
 Mobility in soil: No data available
 Partition coefficient:
 n-octanol/water (log Pow) No data available
 Soil adsorption (Koc): No data available
 Henry's Law: constant (PaM³ /mol)

Section 13: Disposal considerations

13.1 Waste treatment methods

Waste disposal of substance:

Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.

Container disposal:

Dispose of as unused product. Do not re-use empty containers.

Other considerations:

Observe all federal, state and local regulations when disposing of the substance.

Section 14: Transport Information

DOT: Non-hazardous for transportation

IMDG: Non-hazardous for transportation

IATA: Non-hazardous for transportation

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15: Regulatory Information

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:

SARA 313: Not Listed

SARA 302: Not Listed

State Regulations

State Right-to-Know

Massachusetts Not Listed

New Jersey Listed

Pennsylvania Not Listed

California Proposition 65: Not Listed

Section 16: Other Information

HMIS Rating

Health hazard: 1

Flammability: 2

Physical Hazard 0

NFPA Rating

Health Hazard: 1

Flammability Hazard: 2

Instability Hazard: 0

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.