

Section 1: IDENTIFICATION

GSH Product Identifier: Innovative Polymer Systems 500EZ
Other means of Identification: None

Relevant Identified uses of the substance or mixture and uses advised against

Product Use: Component of a Foam Insulation System
Area of Application: Industrial applications
Supplier/Manufacturer: Innovative Polymer Systems, LLC
4115 Capital Drive
New Albany, IN 47150
Emergency Phone (812)776-6727

Section 2: Hazard Identification**Classification of the substance or mixture:**

Acute Toxicity (Oral) - Category 4
Acute Toxicity (Inhalation) - Category 4
Skin Corrosion/Irritation - Category 1
Eye Damage/Irritation - Category 1
Specific Target Organ Toxicity, Single Exposure - Category 3
(Respiratory).

GHS label elements

Signal word: Danger

Pictogram:



Hazard Statements: Harmful if swallowed.
Harmful if inhaled.
Causes severe skin burns and eye damage.
May cause respiratory irritation.

Precautionary statements:

Prevention: Avoid breathing vapours/spray
Use in a well ventilated area
Wash thoroughly after handling
Wear protective gloves

This material is considered hazardous by the OSHA Hazard Communication Standard.

Section 3: Composition/information on ingredients

Substance/mixture: Mixture

Other means of identification: Not available

Ingredient Name	Concentration	Cas #	Exposure Limits	LD50/LC50
Dimethylamino-ethoxyethanol	1%-5%	108-01-0	Not available	2337mg/kg (rat-oral)/ 1000mg/l 4hr (rat-inhalation)
1,3-Propane diamine N'-(3-(dimethylamino-propyl)-N,N-dimethyl	3%-7%	6711-48-4	Not available	>1.25g/kg (rat-oral) / Not determined

Section 4: FIRST AID MEASURESDescription of necessary first aid measures

Skin: Clean exposed area with soap and warm water. Continue to rinse for at least 10 minutes. Remove contaminated clothing. Wash clothes before reuse. Seek medical attention if irritation persists.

Eyes: Immediately flush thoroughly with water for at least 15 minutes lifting eye lids occasionally. Seek medical attention.

Inhalation: Remove victim to fresh air; give artificial respiration if not breathing. Seek medical attention.

Ingestion: Wash mouth out with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting. Seek medical attention immediately.

Most important symptoms/effects, acute and delayedPotential acute health effects

Skin Contact: Causes severe burns. Contact may cause redness, swelling and a painful sensation.

Eye Contact: Causes irritation, redness, tearing, and blurred vision and/or eye damage.

Inhalation: Product may give off vapour that is irritating to the respiratory system.

Ingestion: Harmful if swallowed, may cause gastrointestinal, nausea, vomiting and diarrhea.

Delayed and Immediate effects and also chronic effects from short and long term exposure

Short Term Exposure: Not available

Long Term Exposure: Chronic skin contact with low concentrations may cause dermatitis.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician: Treat symptomatically.

Specific Treatments: None

Protection of first aiders: No action shall be taken involving any personal risk or without suitable training. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Section 5: FIRE FIGHTING MEASURES

Means of Extinction: Use extinguishing agent suitable for the surrounding fire. Suitable extinguishing media: Use dry chemical, Carbon Dioxide, water spray or alcohol resistant foam.

Specific hazards arising from the chemical: Carbon oxides, nitrogen oxides, dense black smoke. Burning produces irritant fumes.

Hazardous combustion products: May produce carbon dioxide, carbon monoxide, oxides of nitrogen.

Special protective equipment and precautions for fire-fighters:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk without suitable training. Fire fighters should wear appropriate protective equipment and self contained breathing apparatus with a full face piece operated in positive pressure mode. Move undamaged containers from immediate hazard area if it can be done safely.

Section 6: ACCIDENTAL RELEASE MEASURES

Spill Procedure:

Clean up personnel must wear protective equipment to prevent contact with the product. Evacuate the area of all unnecessary personnel. Stop spill at source. Use inert absorbent material such as sand, clay, earth or floor absorbent to clean up spill. Shovel into drums.

Personal Precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Wear personal protection equipment. Remove persons to safety. Do not breathe vapours or spray mist.

Methods and material for containment and cleaning up:

Suitable material for taking up: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

Wash with plenty of water.

Section 7: HANDLING AND STORAGE

Precautions for safe handling:

Protective Measures:

Put on appropriate personal protective equipment. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Wear appropriate respirator. Keep in the original container and keep tightly closed when not in use.

Advice on general occupational hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands before, eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities:

Store product in accordance with local regulation. Store product at room temperature away from heat and moisture. Store product in original container in a dry, cool, and well ventilated area with local exhaust. Keep away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTIONS**Appropriate Engineering Controls**

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, etc) below recommended exposure limits. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, and clothing. Do not breathe dust/fume/gas/mist/vapours.

Individual Protection Measures

Eye Protection: When directly handling liquid product, eye protection is required, such as chemical safety goggles or chemical safety goggles in combination with a full face shield when there is a greater risk of splash.

Protection for skin: Avoid all skin contact. Wear protective clothing. Depending on the conditions of use, cover as much of the exposed skin area as possible with appropriate clothing to prevent skin contact.

Protection for hands: Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling this product. For example, nitrile rubber, butyl rubber, neoprene and PVB.

Respiratory Protection: Spraying increases the risk of hazardous exposure. In atmospheres where the material is sprayed, workers should avoid contact with aerosols through proper engineering controls such as exhaust ventilation and proper protective equipment such as a full face air supplied respirators.

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Colour: Clear Amber Liquid	Vapour Pressure: Not available
Physical State: Liquid	Vapour Density: Not available
Odour: Light ammonia	Relative Density: Not available
Odour Threshold: Not available	Solubility in water: Miscible
pH: 11.0	Partition coefficient: Not available
Melting Point: Not available	Auto Ignition Temp: Not applicable
Freezing Point: 0°C	
Initial Boiling Point: 212°C	Decomposition Temp: Not available
Flash Point: Not applicable	Viscosity: 150-250cps (at 20°C)
Evaporation Rate: Not available	Specific Gravity: ~1.09g/mL
Lower Flammable Limit: None	
Upper Flammable Limit: None	

Section 10: STABILITY AND REACTIVITY

Chemical Stability: This is a stable material at room temperature.

Possibility of Hazardous Reactions: Not available.

Conditions to avoid: High temperatures, open flames and sparks. Do not use in areas without adequate ventilation.

Incompatibility (Materials to avoid): Reacts with strong oxidizing agents.

Hazardous decomposition Products: Oxides of nitrogen and carbon. Other potentially toxic fumes.

Hazardous Polymerization: Polymerization will occur in contact with isocyanates.

Section 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity:

Ingredient Name	LC50	LD50	LD50
1,3 Propanediamine, N' (3-dimethylamino)propyl)N,Ndimethyl-	Not available	1620ug/kg Oral, rat	Not available
Dimethylaminoethanol 2-	6.1mg/L 4 hours, (inhalation, rat)	1803mg/kg Oral, rat	Not available

Irritation:

Skin Irritation: Causes severe skin burns.

Eye Irritant: Causes serious eye damage.

Sensitization:

Skin Sensitization: Not expected to be a skin or respiratory sensitizer.

Repeated dose toxicity: No information available

Carcinogenicity: No ingredients are listed as carcinogens by ACGIH and IRAC.

Mutagenicity: No information available.

Reproductive Effects: No information available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

Persistence and Degradability: Not expected to be rapidly biodegradable.

Bioaccumulative Potential: Not available.

Mobility in Soil: Not available

Other adverse effects: Not available

Section 13: DISPOSAL CONSIDERATIONS

Disposal Procedure:

Comply with Federal, provincial, and local regulations on reporting releases.

Consult your local or regional authorities.

Section 14: TRANSPORT INFORMATION

DOT Non-Bulk Not classified as Dangerous Goods for Transport

DOT Bulk Not classified as Dangerous Goods for Transport

IMDG Not classified as Dangerous Goods for Transport

ICAO/IATA Not classified as Dangerous Goods for Transport

Reportable Quantity: Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

Section 15: REGULATORY INFORMATION

Safety, Health & Environmental Regulations/Legislations Specific For The Chemical

US Federal Regulations:

**U.S. OSHA (Occupational Safety and Health Administration)
Specifically Regulated Substances (29 CFR 1910.1001-1050)**

No components of this product are present at concentrations greater than or equal to 0.1% and are identical as a carcinogen or potential carcinogen by OSHA.

SARA/CERCLA reporting requirements:

No components of this product are present at concentrations greater than or equal to 0.1% and are identical as a carcinogen or potential carcinogen by OSHA.

State Right to Know Regulations:

No components of this product are present at concentrations greater than or equal to 0.1% and are identical as a carcinogen or potential carcinogen by OSHA.

Section 16: OTHER INFORMATION**DATE:** October 2, 2023**REVISION** 1