



MM Lok-Poxy 2 Part Adhesive Expansion Joint System

The products listed below along with their corresponding Safety Data Sheets (SDS) are contained in this document:

- MM Lok-Poxy 2-Part Adhesive
 - Part A
 - Part B



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision Date: 01/19/22 Supersedes: 03/21/15

Version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. **Product Identifier**

Product Form: Mixture

Product Name: MM Lok-Poxy 2-Part High Modulus Gel Epoxy Adhesive Component Part A

Intended Use of the Product

Use of the substance/mixture: Epoxy gel. Adhesive.

1.3. Name, Address, and Telephone of the Responsible Party

Company

MM Systems OPCO, LLC

50 MM Way Pendergrass, GA 706-824-7500

https://www.mm.systems

1.4. **Emergency Telephone Number**

Emergency Number 800-424-9300

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC - Day or Night

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture 2.1.

Classification (GHS-US)

Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2A H319 Aquatic, Acute 2 H401 Aquatic Chronic 2 H411

Label Elements 2.2.

GHS-US Labeling

Hazard Pictograms (GHS-US)





Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US) : H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H401 – Toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements (GHS-US)

: P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P261 - Avoid breathing mist, spray, vapors

P264 - Wash exposed areas. thoroughly after handling

P272 - Contaminated work clothing should not be allowed out of the workplace

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P273 - Avoid release to the environment

P280 - Wear eye protection, protective clothing, protective gloves

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing

P308+P313 - If exposed or concerned: Get medical advice/attention

P310 - Immediately call a POISON CENTER or doctor/physician

P321 - Specific treatment (see Section 4)

P332+P313 - If skin irritation occurs: Get medical advice/attention

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

P362 - Take off contaminated clothing and wash before reuse

P362+P364 - Take off contaminated clothing and wash it before reuse

P391 - Collect spillage

P405 - Store locked up

P501 - Dispose of contents/container to local, regional, national, and international regulations

2.3. Other Hazards

No additional information available

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

Full text of H-phrases: see section 16

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Bisphenol A-epichlorohydrin polymer	(CAS No) 25068-38-6	60-70	Skin Irrit. 2, H315
			Skin Sens. 1, H317
			Eye Irrit. 2A, H319
			Aquatic Chronic 2, H411
Ceramic Microspheres	(CAS No) 66402-68-4	10-20	Skin Irrit. 2, H315
			Eye Irrit. 2A, H319
			Resp. Irrit. 3, H335
Hydrophobic Silica	(CAS No) 67762-90-7	3-6	Skin irrit. 2, H315
			Skin Sens. 1, H317
			Eye Irrit. 2A, H319
Titanium Dioxide	(CAS No) 13463-67-7	2-4	Comb. Dust, H232

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention.

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area.

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First-aid Measures After Skin Contact: Remove contaminated clothing. Immediately flush skin with plenty of water for at least 60 minutes. Get medical advice/attention. Wash contaminated clothing before reuse.

First-aid Measures After Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: Causes skin irritation. Causes serious eye damage.

Symptoms/Injuries After Inhalation: Inhalation of fumes or vapours may cause respiratory irritation. **Symptoms/Injuries After Skin Contact:** Causes skin irritation. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Causes serious eye damage.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Health Effects: Repeated exposure may lead to allergic reactions.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Alcohol foam, carbon dioxide, dry chemical. Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use water jet. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but will burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Product is stable.

5.3. Advice for Firefighters

Firefighting Instructions: Exercise caution when fighting any chemical fire.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid all eyes and skin contact and do not breathe vapor and mist. Do not allow product to spread into the environment.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. **Methods for Cleaning Up:** Collect spillage. Clear up spills immediately and dispose of waste safely.

6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

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SECTION 7: HANDLING AND STORAGE

7.1. **Precautions for Safe Handling**

Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid breathing vapours, mist, spray. Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do no eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep container tightly closed.

Incompatible Products: Strong acids. Strong bases. Strong oxidizers. Strong reducing agents. Free radical generators. Inert gas.

Oxygen scavenger. Peroxides.

Incompatible Materials: Heat sources. Storage Area: Store locked up.

7.3. Specific End Use(s) Epoxy gel. Adhesive.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Titanium Dioxide (CA		
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m3

8.2. **Exposure Controls**

Appropriate Engineering Controls : Emergency eye wash fountains should be available in the immediate vicinity of any

potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment : Gloves. Protective clothing. Protective goggles.







Materials for Protective Clothing

: Chemically resistant materials and fabrics. **Hand Protection** : Wear chemically resistant protective gloves.

Eye Protection : Chemical goggles or face shield. : Wear suitable protective clothing. **Skin and Body Protection**

Respiratory Protection : If exposure limits are exceeded or irritation is experienced, NIOSH approved

respiratory protection should be worn.

Other Information : When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State : Gel **Appearance** : White Odor : Slight

Odor Threshold : No data available : No data available pН Relative Evaporation Rate (butylacetate=1) : No data available Relative evaporation rate (ether=1) : Slower than ether

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: No data available **Melting Point Freezing Point** : No data available **Boiling Point** : >200 °C (392 °F) Flash Point : 94 °C (201 °F) **Auto-ignition Temperature** : No data available **Decomposition Temperature** No data available Flammability (solid, gas) : No data available **Vapor Pressure** : No data available Relative Vapor Density at 20 °C : No data available **Relative Density** : No data available

Specific Gravity : 1.30
Solubility : Water: Nil

Log Pow: No data availableLog Kow: No data availableViscosity, Kinematic: No data availableViscosity, Dynamic: No data availableExplosive Properties: No data availableOxidizing Properties: No data availableExplosive Limits: Not applicable

9.2. Other Information

VOC content : 0 %

SECTION 10: STABILITY AND REACTIVITY

- **10.1 Reactivity:** Product is stable under normal and anticipated storage, handling and processing conditions.
- **10.2 Chemical Stability:** Product is stable under normal conditions.
- **10.3** Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
- 10.4 Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.
- 10.5 Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.
- **10.6** Hazardous Decomposition Products: Carbon oxides (CO, CO2).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity: Category 4

Skin Corrosion/Irritation: Causes skin irritation. **Serious Eye Damage/Irritation:** Causes eye irritation.

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not Classified
Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Inhalation of fumes or vapours may cause respiratory irritation.

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Symptoms/Injuries After Skin Contact: Causes skin irritation. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Causes eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: May cause cancer.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Toxic to aquatic life with long lasting effects.

12.2. Persistence and Degradability

SurePoxy HM Gel Component A (113A)	
Persistence and Degradability	Not established. May cause long-term adverse effects in the environment.

12.3. Bioaccumulative Potential

SurePoxy HM Gel Component A (113A)	
Bioaccumulative Potential	Not established.

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Ecology - Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT Not regulated for transport

14.2 In Accordance with IMDG Not regulated for transport

14.3 In Accordance with IATA Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2 US State Regulations

Bisphenol A-epichlorohydrin polymer (25068-38-6)

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

SECTION 16: OTHER INFORMATION

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4

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Aquatic Acute 2 Aquatic Acute 3 Aquatic Acute 3 Aquatic Chronic 1 Aquatic Chronic 1 Aquatic Chronic 2 Asp. Tox. 1 Aspiration hazard Category 1 Acri. 1B Carc. 2 Eye Dam. 1 Eye Irrit. 2A Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1 Skin Sens. 1 Skin sens. 1A Skin sens. 1A Skin sensitization Category 1 Skin Sens. 1A Skin sensitization Category 1 Specific target organ toxicity (repeated exposure) Category 2 Specific target organ toxicity (single exposure) Category 3 Hazardous to the aquatic environment - Chronic Hazard Category 1 Carc. 1B Carc. 1B Carcinogenicity Category 1 Serious eye damage/eye irritation Category 1 Eye Dam. 1 Serious eye damage/eye irritation Category 1 Sylin Sens. 1 Skin sensitization Category 1 Skin Sens. 1 Skin sensitization Category 1 Specific target organ toxicity (repeated exposure) Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 Haze Harmful if swallowed Hago Haybe fatal if swallowed and enters airways Hall Harmful in contact with skin Causes skin irritation Hall Hall Harmful in contact with skin Causes skin irritation Hall Hall Harmful if inhaled Harmful if inhaled
Aquatic Chronic 1 Hazardous to the aquatic environment - Chronic Hazard Category 1 Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2 Asp. Tox. 1 Aspiration hazard Category 1 Carc. 1B Carcinogenicity Category 1B Carc. 2 Carcinogenicity Category 2 Eye Dam. 1 Serious eye damage/eye irritation Category 1 Eye Irrit. 2A Serious eye damage/eye irritation Category 2A Flam. Liq. 3 Flammable liquids Category 3 Skin Irrit. 2 Skin corrosion/irritation Category 2 Skin Sens. 1 Skin sensitization Category 1 Skin Sens. 1 Skin sensitization Category 1 STOT RE 2 Specific target organ toxicity (repeated exposure) Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H226 Flammable liquid and vapor H302 Harmful if swallowed H304 May be fatal if swallowed H304 May be fatal if swallowed H315 Causes skin irritation H317 May cause an allergic skin reaction H318 Causes serious eye irritation H319 Causes serious eye irritation
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H318 Causes serious eye damage H319 Causes serious eye irritation
H319 Causes serious eye irritation
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H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
H350 May cause cancer
H351 Suspected of causing cancer
H373 May cause damage to organs through prolonged or repeated exposure
H400 Very toxic to aquatic life
H401 Toxic to aquatic life
H402 Harmful to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects



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LIMITED WARRANTY

We warrant our products to be of good quality and will replace material proved detective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement, MM Systems makes no warranty or guarantee, expressed or implied, including warranties of fitness or merchantability, respecting its products, and MM Systems, Inc shall have no other liability with respect hereto. User shall determine the suitability of the product or the intended use and assume all risks and liability in connection thereto. Our salesmen. distributors and their salesmen have no authority to change the printed recommendations concerning the use of our products.

DISCLAIMER

The information provided in this Safety Data Sheet is believed to be accurate to the best of our knowledge, information, and belief at the date of its publication. The information given is designed solely as a guide for the safe handling, use, processing, storage, transportation, disposal, and release by a person trained in chemical handling. This 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 on either the latest version of our product data sheet or safety data sheet. Users and handlers of this product should make their own investigations to determine the suitability of the information provided herein for their own purposes.

SDS US (GHS HazCom) - US Only 10 pt 2



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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. Product Identifier

Product Form: Mixture

Product Name: MM Lok-Poxy 2-Part High Modulus Gel Epoxy Adhesive Component Part B

1.2. Intended Use of the Product

Use of the substance/mixture: Epoxy gel. Adhesive

1.3. Name, Address, and Telephone of the Responsible Party

Company

MM Systems OPCO, LLC

50 MM Way Pendergrass, GA

706-824-7500

https://www.mm.systems

1.4. Emergency Telephone Number

Emergency Number : 800-424-9300

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC - Day or Night

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Acute Toxicity, oral 4 H302 Acute Toxicity, H312

Dermal 4

Skin Corr. 1A H314
Skin Irrit. 2 H315
Skin Sens. 1 H317
Eye Dam. 1 H318
Acute Toxicity, H333

Inhalation 5

Target Organ Toxicity, H335

single exposure, 3

Carc. 1A H350
Aquatic Acute 1 H400
Aquatic Chronic 3 H402
Chronic Toxicity 1 H410

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)









Signal Word (GHS-US) : Danger

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Hazard Statements (GHS-US) : H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H331 - Toxic if inhaled H333 - Toxic if inhaled

H335 - May cause respiratory irritation H340 - May cause genetic defects

H350 - May cause cancer

H361 - Suspected of damaging fertility or the unborn child

H400 - Very toxic to aquatic life H402 - Harmful to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements (GHS-US)

: P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P261 - Avoid breathing mist, spray, vapors

P264 - Wash exposed areas. thoroughly after handling

P272 - Contaminated work clothing should not be allowed out of the workplace

P273 - Avoid release to the environment

P280 - Wear eye protection, protective clothing, protective gloves

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all

contaminated clothing. Rinse skin with water/shower

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing P308+P313 - If exposed or concerned: Get medical advice/attention P310 - Immediately call a POISON CENTER or doctor/physician

P321 - Specific treatment (see Section 4)

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse

P363 - Wash contaminated clothing before reuse

P391 - Collect spillage P405 - Store locked up

P501 - Dispose of contents/container to local, regional, national, and international regulations

2.3. **Other Hazards**

No additional information available

Unknown Acute Toxicity (GHS-US)

No data available

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

Full text of H-phrases: see section 16

3.2. **Mixture**

Name	Product identifier	%	Classification (GHS-US)
Diethylenetriamine	(CAS No) 111-40-0	35-45	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311
			Skin Corr. 1A, H314
			STOT SE 3, H335
	(2.2)		Aquatic Acute 3, H402
Quartz	(CAS No) 14808-60-7	10-15	Carc. 1A, H350
(Component)			STOT SE 3, H335
			STOT RE 1, H372
Kaolin	(CAS No) 1332-58-7	10-15	Not classified
Phenol, 4-nonyl-, branched	(CAS No) 84852-15-3	7-12	Acute Tox. 4 (Oral), H302
			Acute Tox. Not classified
			(Dermal)
			Skin Corr. 1B, H314
			Eye Dam. 1, H318
			Repr. 2, H361
			Aquatic Acute 1, H400
			Aquatic Chronic 1, H410
Oxirane, [(2-methylphenoxy)methyl]-	(CAS No) 2210-79-9	7-12	Skin Sens. 1A, H317
			Aquatic Chronic 2, H411
Solvent naphtha, petroleum, heavy aromatic	(CAS No) 64742-94-5	7-12	Flam. Liq. 3, H226
			Skin Irrit. 2, H315
			Carc. 2, H351
			STOT SE 3, H336
			Asp. Tox. 1, H304
			Aquatic Acute 2, H401
			Aquatic Chronic 2, H411
Alkyl Quartenary Ammonium Clay	(CAS No) Proprietary	5-10	Not classified

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. **Description of First Aid Measures**

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention.

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area.

First-aid Measures After Skin Contact: Remove contaminated clothing. Immediately flush skin with plenty of water for at least 60 minutes. Get medical advice/attention. Wash contaminated clothing before reuse.

First-aid Measures After Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting.

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4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: Causes severe skin burns and eye damage.

Symptoms/Injuries After Inhalation: Inhalation of fumes or vapours may cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Corrosive. Causes burns.

Symptoms/Injuries After Eye Contact: Causes serious eye damage.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: May cause cancer. May damage fertility. May damage the unborn child. May cause heritable genetic

damage.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Alcohol foam, carbon dioxide, dry chemical. Use extinguishing media appropriate for surrounding

Unsuitable Extinguishing Media: Do not use water jet. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but will burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Product is stable.

5.3. Advice for Firefighters

Firefighting Instructions: Exercise caution when fighting any chemical fire.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid all eyes and skin contact and do not breathe vapor and mist. Do not allow product to spread into the environment.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Collect spillage. Clear up spills immediately and dispose of waste safely.

6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid breathing vapours, mist, spray. **Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do no eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep container tightly

Incompatible Products: Strong acids. Strong bases. Strong oxidizers.

Incompatible Materials: Heat sources. **Storage Area:** Store locked up.

7.3. Specific End Use(s) Epoxy gel. Adhesive.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Diethylenetriamine (111-40-0)		
USA ACGIH	ACGIH TWA (ppm)	1 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m³)	4 mg/m ³
USA NIOSH	NIOSH REL (TWA) (ppm)	1 ppm

8.2. Exposure Controls

Appropriate Engineering Controls : Emergency eye wash fountains and safety showers should be available in the

immediate vicinity of any potential exposure. Ensure all national/local regulations

are observed.

Personal Protective Equipment : Gloves. Protective clothing. Protective goggles.







Materials for Protective Clothing

: Chemically resistant materials and fabrics.

Hand Protection Eye Protection $: \ \ We ar \ chemically \ resistant \ protective \ gloves.$

Skin and Body Protection

: Chemical goggles or face shield.: Wear suitable protective clothing.

Respiratory Protection

: If exposure limits are exceeded or irritation is experienced, NIOSH approved

respiratory protection should be worn.

Other Information : When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State: LiquidAppearance: Light.Odor: Amine-like.

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Odor Threshold : No data available μH : No data available Relative Evaporation Rate (butylacetate=1) No data available Relative evaporation rate (ether=1) : Slower than ether **Melting Point** No data available **Freezing Point** : No data available **Boiling Point** : 260 °C (500 °F) **Flash Point** : 93.3 °C (200 °F) **Auto-ignition Temperature** : No data available **Decomposition Temperature** : No data available Flammability (solid, gas) : No data available **Vapor Pressure** No data available Relative Vapor Density at 20 °C : No data available : No data available **Relative Density**

Specific Gravity : 1.19
Solubility : Water: Nil

Log Pow: No data availableLog Kow: No data availableViscosity, Kinematic: No data availableViscosity, Dynamic: No data availableExplosive Properties: No data availableOxidizing Properties: No data availableExplosive Limits: Not applicable

9.2. Other Information

VOC content :0%

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Product is stable.

10.2 Chemical Stability: Product is stable.

10.3 Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4 Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

10.5 Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

10.6 Hazardous Decomposition Products: Aldehydes, Carbon oxides (CO, CO2), Hydrocarbons.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity: Not available

Diethylenetriamine (CAS No) 111-40-0	
NOEL Inhalation Rat (mg/l)	> 0.07 mg/L (Exposure time: 4 h)

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Phenol, 4-nonyl-, branched (84852-15-3)		
LD50 Oral Rat	580 mg/kg	
LD50 Dermal Rabbit	2031 mg/kg	
Oxirane, [(2-methylphenoxy)methyl]- (2210-79-9)		
LC50 Inhalation Rat (mg/l)	6090 mg/m³ (Exposure time: 4 h)	
Solvent naphtha, petroleum, heavy aromatic (64742-94-5)		
LD50 Oral Rat	> 5000 mg/kg	
LD50 Dermal Rabbit	> 2 ml/kg	
LC50 Inhalation Rat (mg/l)	> 590 mg/m³ (Exposure time: 4 h)	

Skin Corrosion/Irritation: Causes severe skin burns and eye damage.

Serious Eye Damage/Irritation: Causes serious eye damage.

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not Classified. **Carcinogenicity:** May cause cancer. **Reproductive Toxicity:** Not classified.

Specific Target Organ Toxicity (Single Exposure): Not classified Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Inhalation of fumes or vapours may cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Corrosive. Causes burns.
Symptoms/Injuries After Eye Contact: Causes serious eye damage.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: May cause cancer.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Toxic to aquatic life with long lasting effects.

Diethylenetriamine (CAS No) 111-40-0	
LC50 Fish 1	430 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [guppy])
EC50 Daphnia 1	16 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Phenol, 4-nonyl-, branched (84852-15-3)	
LC50 Fish 1	0.135 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	0.14 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Other Aquatic Organisms 1	0.36 - 0.48 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static])
LC 50 Fish 2	0.1351 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
EC50 Other Aquatic Organisms 2	0.16 - 0.72 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [static])

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)	
LC50 Fish 1	19 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	0.95 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	2.34 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)

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12.2. **Persistence and Degradability**

SurePoxy HM Gel Component B (113B)	
Persistence and Degradability	Not established. May cause long-term adverse effects in the environment.

Bioaccumulative Potential 12.3.

Phenol, 4-nonyl-, branched (84852-15-3)

SurePoxy HM Gel Component B (113B)	
Bioaccumulative Potential	Not established.

BCF fish 1	271	
Solvent naphtha, petroleum, heavy aromatic (64742-94-5)		
BCF fish 1	61 - 159	
Log Pow	2.9 - 6.1	

12.4. Mobility in Soil No additional information available

12.5. **Other Adverse Effects**

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods 13.1.

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT

Proper Shipping Name : CORROSIVE LIQUIDS, N.O.S.

Hazard Class : 8

: UN1760 **Identification Number**

Label Codes : 8 **Packing Group** : 111 **ERG Number** : 154

14.2 In Accordance with IMDG

: CORROSIVE LIQUID, N.O.S. **Proper Shipping Name**

: 8 **Hazard Class**

Identification Number : UN1760 : III **Packing Group Label Codes** : 8 : F-A EmS-No. (Fire) EmS-No. (Spillage) : S-B

14.3 In Accordance with IATA

: CORROSIVE LIQUID, N.O.S. **Proper Shipping Name**

Packing Group : 111 **Identification Number** : UN1760 **Hazard Class** : 8 : 8 **Label Codes**





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: 8L

ERG Code (IATA)

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Phenol, 4-nonyl-, branched (84852-15-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule
	under TSCA.

Oxirane, [(2-methylphenoxy)methyl]- (2210-79-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2 **US State Regulations**

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

Phenol, 4-nonyl-, branched (84852-15-3)

- U.S. Maine Chemicals of High Concern
- U.S. Minnesota Chemicals of High Concern
- U.S. Minnesota Chemicals of High Concern Persistent Bioaccumulative Toxins
- U.S. North Dakota Water Quality Standards Aquatic Life Acute Value for Classes I, IA, II, III
- U.S. North Dakota Water Quality Standards Aquatic Life Chronic Value for Classes I, IA, II, III
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term

Oxirane, [(2-methylphenoxy)methyl]- (2210-79-9)

- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term

SECTION 16: OTHER INFORMATION

Other Information

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2

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Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Muta. 1B	Germ cell mutagenicity Category 1B
Repr. 2	Reproductive toxicity Category 2
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
Skin Sens. 1A	Skin sensitization Category 1A
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects



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