



MM Epoxy Bonded Sealing System 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
- Elastobond Activator
 - Promotes adhesion of Epoxy to rubber seal
- LOCTITE® Adhesive
 - Used in splicing rubber seals
- LOCTITE® Primer
 - Used in splicing rubber seals



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

01/19/2022 EN (English US) 1/8



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.

01/19/2022 EN (English US) 2/8



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.

01/19/2022 EN (English US) 3/8



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

01/19/2022 EN (English US) 4/8



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

: 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.

01/19/2022 EN (English US) 5/8



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

01/19/2022 EN (English US) 6/8



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Aquatic Acute 2 Aquatic Acute 3 Aquatic Acute 3 Aquatic Chronic 1 Aquatic Chronic 2 Asp. Tox. 1 Aspiration hazard Category 1 Acr. 2B Carc. 2B Carcinogenicity Category 2 Eye Dam. 1 Eye Irrit. 2A Sini Dambel liquids Category 3 Skin Sens. 1 Skin Sens. 1 Skin Sens. 1 Sin Sens. 1A Specific target organ toxicity (repeated exposure) Category 2 Specific target organ toxicity (single exposure) Category 3 Hazard Basala May be fatal if swallowed and enters airways Hajas Hajas Causes serious eye damage Hajas Category 1 Category 1 Category 2 Eye Dam. 1 Serious eye damage/eye irritation Category 2 Skin Sens. 1 Skin sensitization Category 3 Skin corrosion/irritation Category 2 Skin Sens. 1 Skin sensitization Category 1 Skin sensitization Category 1 Skin Sens. 1 Skin sensitization Category 1 Skin sensitization Category 1 Skin Sens. 1 Sin Sens. 1 Skin sensitization Category 1 Skin Sens. 1 Category 1 Skin Sens. 1 Skin sensitization Category 1 Scort Re 2 Specific target organ toxicity (repeated exposure) Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 Hajas Hajas Harmful in contact with skin Hajas Harmful in contact with skin Hajas Causes skin irritation Hajas Harmful in contact with skin Hajas Causes serious eye damage Hajas Harmful in inhaled Hajas Hajas Harmful in inhaled Hajas Hajas Hajas Hajas Harmful in inhaled Hajas Hajas Hajas Hajas Hajas Hay cause drowsiness or dizziness Hajas
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H332 Harmful if inhaled H336 May cause drowsiness or dizziness
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



Safety Data Sheet

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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



Safety Data Sheet

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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

03/21/2015 EN (English US) 1/11



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

03/21/2015 EN (English US) 2/11



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.

03/21/2015 EN (English US) 3/11



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.

03/21/2015 EN (English US) 4/11



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.

03/21/2015 EN (English US) 5/11



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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)

03/21/2015 EN (English US) 6/11



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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)		

03/21/2015 EN (English US) 7/11



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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**







Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

: 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 ru		
	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

03/21/2015 9/11 EN (English US)



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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	



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 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.

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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

SAFETY DATA SHEET

Section 1 – Product and Company Identification

ADDRESS: MM SYSTEMS CORPORATION

50 MM WAY

PENDERGRASS, GA 30567

Toll Free Domestic - 800-241-3460 International - 1-706-824-7500

PRODUCT NAME: MM Elastobond Adhesion Promoter

PRODUCT USE: Adhesion promoter

24 HR EMERGENCY TELEPHONE NUMBER: WITHIN USA & CANADA: 800-424-9300 OUTSIDE USA & CANADA: -+1 703-527-3887

Section 2 - Hazards Identification

Classification of the substance or mixture

GHS RATINGS:

Flammable liquid	2	Flash point < 23° C and initial boiling point > 35° C (95° F)	
Inhalation Toxicity	Acute Tox. 4	Gases >2500 +<=20000ppm, Vapors >10+<=20mg/l, Dusts & mists	
		>1+<=5 mg/l	
Skin corrosive	2	Reversible adverse effects in dermal tissue. Draize score: >=2.3 < 4.0 or	
		persistent inflammation	
Eye corrosive	2.A	Eye irritant: Subcategory 2A, Reversible in 21 days	
Skin sensitizer	1	Skin sensitizer	
Mutagen	1B	Known to produce heritable mutations in human germ cells Subcategory	
		1B, Positive results: In vivo heritable germ cell tests in mammals. Human	
		germ cell tests. In vivo somatic mutagenicity tests, combined with some	
		evidence of germ cell mutagenicity.	
Cacinogen	1B	Presumed Human Carcinogen. Based on demonstrated animal	
		carcinogenicity	
Organ toxin single exposure	3	Transient target organ effect – Narcotic effects – Respiratory tract irritation	
Organ toxin repeated exposure	2	Presumed to be harmful to human health – Animal studies with significant	
		toxic effects relevant to humans at generally moderate exposure	
		(guidance) – Human evidence in exceptional cases	
Aspiration hazard	1	Aspiration Toxicity Category 1: Known (regarded) – human evidence –	
		hydrocarbons with kinematic viscosity ? 20.5 mm2/s at 40° C	

GHS Hazards		GHS Precautions	
H225	Highly flammable liquid and vapor	P101	If medical advice is needed, have product container or label on hand
H304	May be fatal if swallowed and enters airways	P102	Keep out of reach of children
H315	Causes skin irritation	P103	Read label before use
H317	May cause an allergic skin reaction	P201	Obtain specialty instructions before use
H319	Causes serious eye irritation	P202	Do not handle until all safety precautions have been read and understood
H332	Harmful if inhaled	P210	Keep away from heat, sparks, open flames and hot surfaces – No smoking
H336	May cause drowsiness or dizziness	P233	Keep container tightly closed
H340	May cause genetic defects	P240	Ground and bond container and receiving equipment
H350	May cause cancer	P241	Use explosion-proof electrical, ventilating, lighting and motorized equipment
H373	May cause damage to organs through prolonged or repeated exposure	P242	Use only non-sparking tools
		P243	Take precautionary measures against static discharge

		B
P ₂	260	Do not breathe dust, mist, vapors or
	004	spray
P2	264	Wash contacted skin thoroughly after
		handling
P2	271	Use only outdoors or in a well-
		ventilated area
P2	272	Contaminated work clothing should not
		be allowed out of the workplace
P2	280	Wear protective gloves, protective
		clothing, eye protection, face protection
		and respiratory protection
PS	312	Call a POISON CENTER or doctor if
		you feel unwell
P3	321	Specific treatment (see first aid
		instructions on SDS)
	331	Do NOT induce vomiting
P3	362	Take off contaminated clothing and
		wash before reuse
P3	301 + P310	If SWALLOWED: Immediately call a
		POISON CNETER or doctor/physician
P3	303+P361+P353	IF ON SKIN (or hair): Immediately take
		off all contaminated clothing. Wash
		skin with soap and water
P3	304+P340	IF INHALED: Remove victim to fresh
		air and keep at rest in a position
		comfortable for breathing
P3	305+P351+P338	IF IN EYES: Rinse continuously with
		water for several minutes. Remove
		contact lenses if present and easy to
		do – continue rinsing
P3	308+P313	If exposed or concerned: Get medical
		advice
P3	333+P313	If skin irritation or a rash occurs: Get
		medical advice
P3	337+P313	
		advice
P3	370+P378	In case of fire: Use dry chemical, CO2,
		foam or water fog to extinguish
	405	
P4	403+P235	Store in a well ventilated place. Keep
		cool
P5	501	Dispose of contents and container in
		accordance with local, regional,
		national and international regulations
P2 P2	403+P235	If eye irritation persists: Get medical advice In case of fire: Use dry chemical, CO2, foam or water fog to extinguish Store locked up Store in a well ventilated place. Keep cool

Danger



Hazards not otherwise classified (HNOC) or not covered by GHS: None known

Section 3 - Composition

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Light Aliphatic Solvent	PEL=300pm	PEL=300PPM	
Naphtha (Petroleum			
64742-89-8			
50 percent			
Vapor Pressure: 5.3			
Methyl Ethyl Ketone	200 ppm TWA; 590 mg/m3	300 ppm STEL	NIOSH: 200 ppm TWA;
78-93-3	TWA	200 ppm TWA	590 mg/m3 TWA
20 percent			300 ppm STEL;
Vapor Pressure: 12.13 25C			885 mg/m3 STEL
Acetone	1000 ppm TWA;	750 ppm STEL	NIOSH: 250 [[, TWA'
67-64-1	2400 mg/m3 TWA	500 ppm TWA	590 mg/m3 TWA
10 to 20%			
Methyl n-Amyl Ketone	100 ppm TWA;	50 ppm TWA	NIOSH: 100 ppm TWA;
110-43-0	465 mg/m3 TWA		465 mg/m3 TWA
5 to 10%			
Butyl Alcohol	100 ppm TWA	20 ppm TWA	NIOSH: 50 ppm Ceiling;
71-36-3	300 mg/m3 TWA		150 mg/m3 Ceiling
1 to 5%			
Malaia anhydrida madifiad	None Listed	None	
Maleic anhydride modified	None Listed	None	
chlorinated polypropylene 68609-36-9			
1 to 5%			
1 10 3 /0			
Bisphenol A epoxy resin			
25068-38-6			
1 to 5%			

Section 4 - First Aid Measures

INHALATION: If inhaled: Remove person to fresh air and keep comfortable for breathing. . If breathing difficulty persists, seek medical attention.

EYE CONTACT: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for a minimum of 15 minutes while holding eye lids open. If eye irritation persist: seek medical attention.

SKIN CONTACT: Take off all contaminated clothing immediately. Wash exposed area thoroughly with soap and water. Seek medical attention if irritation persists. Do NOT use solvents or thinners to wash off.

INGESTION: If swallowed, seek medical attention immediately and have product container and label at hand. DO NOT INDUCE VOMITING unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed:

Dizziness, breathing difficulty, headaches, & loss of coordination.

May cause skin sensitization or allergic skin reaction.

Indication of any immediate medical attention and special treatment needed.

Seek professional medical attention for all over-exposures and/or persistent problems.

Section 5 – Fire Fighting Measures

LEL: 1.0% UEL: 112.8%

Extinguishing Media: Dry Chemical, Foam, CO2 or water fog.

Unsuitable Extinguishing Media: High volume water jets

Unusual Fire and Explosion Hazards: Vapors can travel to a source of ignition and flash back. Closed containers may explode when exposed to extreme heat or burst when contaminated with water (CO2 gas evolved). Hazards apply to empty containers. Combustion generates toxic fumes.

Hazardous Combustion Products: oxides of carbon, oxides of nitrogen, formaldehyde, toxic fumes

Special Firefighting Procedures: Highly toxic fumes may be generated by thermal decomposition. Water runoff from firefighting can cause environmental damage. Dike and collect water used to fight fire.

Fire Equipment: Full fire fighter equipment including SCBA should be worn to avoid skin contact and inhalation of concentrated vapors. Minimize skin exposure.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapors and mist. Ensure adequate ventilation. Eliminate all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulation to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let products enter drains.

Methods and materials for containment and cleaning up: Dike spill area and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Sweep up and dispose of in appropriate containers in accordance to Federal, State and/or Local regulations. Clean preferably with a detergent; avoid use of solvents.

Section 7 – Handling and Storage

Safe Handling Measures: Avoid contact with skin and eyes. May cause skin sensitization or allergic skin reaction. Avoid inhalation of vapor or mist. Ground and bond container and receiving equipment. Use non-sparking tools and explosion proof equipment when handling this material. Keep away from sources of ignition – No Smoking. Use in cool, well-ventilated areas. Keep containers closed when not in use. Take measures to prevent the build up of electrostatic charge. Follow all SDS and label precautions even after container is emptied because they may retain product residues. For precautions see section 2.

Storage Requirements: Keep container tightly closed. Keep away from heat, sparks, open flames and hot surfaces. No Smoking. Store in a cool, dry and well-ventilated place. Do not reuse container when empty.

Section 8 – Exposure Control and PPE

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Light Aliphatic Solvent	PEL=300pm	PEL=300PPM	
Naphtha (Petroleum			
64742-89-8			
50 percent			
Vapor Pressure: 5.3			
Methyl Ethyl Ketone	200 ppm TWA; 590 mg/m3	300 ppm STEL	NIOSH: 200 ppm TWA;
78-93-3	TWA	200 ppm TWA	590 mg/m3 TWA
20 percent			300 ppm STEL;
Vapor Pressure: 12.13 25C			885 mg/m3 STEL
Acetone	1000 ppm TWA;	750 ppm STEL	NIOSH: 250 [[, TWA'
67-64-1	2400 mg/m3 TWA	500 ppm TWA	590 mg/m3 TWA
10 to 20%			
Methyl n-Amyl Ketone	100 ppm TWA;	50 ppm TWA	NIOSH: 100 ppm TWA;
110-43-0	465 mg/m3 TWA		465 mg/m3 TWA
5 to 10%			
Butyl Alcohol	100 ppm TWA	20 ppm TWA	NIOSH: 50 ppm Ceiling;
71-36-3	300 mg/m3 TWA		150 mg/m3 Ceiling
1 to 5%			

Maleic anhydride modified chlorinated polypropylene 68609-36-9 1 to 5%	None Listed	None	
Bisphenol A epoxy resin 25068-38-6 1 to 5%			

Engineering Controls: Ground and bond container and receiving equipment. Use explosion proof electrical, ventilation, lighting and motorized equipment. Use non-sparking tools. Ensure adequate ventilation.

Ventilation: General mechanical ventilation or local exhaust should be utilized to keep vapor concentrations below exposure limits (PEL & TLV). Ventilation equipment must be explosion proof.

Safe Work Practices: Eye washes and safety showers in the workplace are recommended. Avoid contact with skin and eyes. Avoid breathing vapors. Wash hands thoroughly after using and before eating, drinking or smoking. Employee education and training in the safe use and handling of this product is required under the OSHA Hazard Communication Standard 29CFR1200. Smoking in area where this material is used should be strictly prohibited. Always use protective clothing and equipment. Remove all contaminated clothing and wash thoroughly when finished working. Keep food and drink away from material and from area where material is being used. Spraying of material can cause an oxygen deficient environment. Use proper ventilation to remove vapors, mist and fumes combined with NIOSH approved respirator.

Respiratory Protection: When working with this material use a MSHA/NIOSH approved cartridge respirator or suitable respiratory protection to keep airborne mists and vapor concentrations below the PEL & TLV limits. When using in poorly ventilated and confined spaces, use a fresh-air supplying respirator or a self-contained breathing apparatus.

Eye/Face Protection: Use safety glasses with chemical splash goggles or faceshield.

Skin Protection: Use chemical resistant gloves.

Body Protection: Impervious clothing, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Contaminated Gear: Take off contaminated clothing immediately and wash before reuse.

Section 9 – Physical and Chemical Properties

This mixture typically exhibits the following properties under normal circumstances:

Appearance: Pale Yellow Odor: Organic Solvent pH: No data available

Freezing point: No data available

Flash point: -4 F, -20 C

Flammability: No data available Vapor Pressure: 38.9 mmHg

Density (Lb/Gal) 6.60

Partition coefficient (n-octanol water): No data available

Decomposition temperature: No data available

Regulatory Coating VOC g/L 742 Actual Coating VOC g/L 656 Weight Percent Volatile 94.51

% Weight VOC 83.01 % Wt Exempt VOC 11.50 Physical State: Liquid

Odor Threshold: No data available Melting point: No data available

Boiling range: 56° C

Evaporation rate: No data available

Explosive Limits: 1% - 13%

Vapor Density: 1.7

Solubility: No data available Autoignition temperature: 343° C Viscosity: No data available

Regulatory Coating VOC lb/gal: 6.19 Actual Coating VOC lb/ga: 5.48 Specific Gravity (SG): 0.791

% Weigth Water 0.0 % Vol Exempt VOC: 11.48

Section 10 - Stability and Reactivity

Reactivity: No data available

Stability: Stable under recommended storage conditions

Possibility of hazardous reactions: Vapors may form explosive mixture with air. Hazardous polymerization will not occur.

Conditions to avoid: Heat, flame and sparks. Extreme temperature and direct sunlight.

Incompatability with: Acids, Strong bases, Strong oxidizers

Hazardous products produced under decomposition: Carbon Monoxide, Carbon Dioxide.

MM Systems Corporation

Section 11 - Toxicological Information

Mixture Toxicity

Oral Toxicity: 3.27mg/kg Dermal Toxicity: 4,363 mg/kg Inhalation Toxicity: 17 mg/L

Component Toxicity

64742-89-8 Light Aliphatic Solvent Naphtha (Petroleum)

Oral: 5,000 mg/kg (Mouse) Dermal: 3,000 mg/kg (Rabbit)

78-93-3 Methyl Ethyl Ketone

Oral: 2,484 mg/kg (Rat) Dermal: 5,000 mg/kg (Rabbit)

110-43-0 Methyl n-Amyl Ketone

Oral: 1,600 mg/kg (Rat) Inhalation: 4,000 ppm (Rat)

71-36-3 Butyl Alcohol

Oral: 700 mg/kg (Rat) Dermal: 3,402 mg/kg (Rabit)

This mixture has not been tested for toxicological effects.

Acute Effects:

INHALATION – Dizziness, breathing difficulty, headaches, & loss of coordination EYE CONTACT – Moderate irritation, tearing, redness, and blurred vision

SKIN CONTACT: Moderate irritant. Can dry and defat skin causing cracks, irritation, and dermatitis.

INGESTION: Can cause gastrointestinal irritation, vomiting, nausea, & diarrhea.

Chronic Effects: May affect liver, kidney and central nervous system with repeated exposure. Prolonged or repeated

exposure may cause lung injury. M ay cause skin sensitization or allergic skin reaction.

Routes of Entry: Inhalation – Skin Contact – Eye Contact – Ingestion

Target Organs: Eyes - Kidneys - Liver - Lungs - Central Nervous System - Reproductive System - Skin - Peripheral

Nervous System - Respiratory System - Other

EFFECTS OF OVEREXPOSURE

Short Term Exposure

The vapors of butyl alcohols irritates the eyes and respiratory tract. They can irritate the skin and cause rash or burning feeling on contact. May affect the central nervous system. Exposure to high concentrations could cause headache, nausea, vomiting, and dizziness. Exposure to high levels of the n-isomer may cause unconsciousness and may lead to irregular heartbeat. The oral LD50 value for rats for the various isomers are as follows: (n-) 790 mg/kg; (sec-) 6,480 mg/kg; (iso-) 2,460 mg/kg; (tert-) 3,500 mg/kg. Methyl n-amyl ketone can affect you when breathed in and by passing through your skin. Irritates the eyes and the respiratory tract. May affect the central nervous system. Breathing the vapor can cause dizziness and lightheadedness, and can make you pass out. Irritates the eyes and the respiratory tract. May affect the central nervous system. Contact can irritate the skin. Exposure can irritate the eyes and respiratory tract. Exposure to high concentrations can cause dizziness, lightheadedness, and unconsciousness.

Long Term Exposure

Repeated or prolonged contact with skin may cause dermatitis, drying and cracking of the skin. Exposure to the n-isomer can damage the liver, heart, and kidneys, cause hearing loss and affect sense of balance. Causes skin irritation with cracking and drying; destroys the skin's natural oils. May cause liver and kidney damage. May affect the nervous system. Repeated skin exposure can cause drying and cracking of the skin. This chemical has not been adequately evaluated to determine whether brain or nerve damage could occur with repeated exposure. However, many solvents and other petroleum-based chemicals have been shown to cause such. Effects may include reduced memory and concentration, personality changes (withdrawal, irritability), and fatigue, sleep disturbances, reduced coordination, and/or effects on the nerves to the arms and legs (weakness, "pins and needles"). Has been implicated in certain nervous system and brain disorders characterized by weakness, fatigue, sleep disturbances, reduced coordination, heaviness in chest and numbness of hand and feet. These symptoms may develop after 1 year of exposure to vapor concentrations of 50 – 200 ppm. Improvement is gradual and may take years after exposure is discontinued. Animal tests show that this chemical is a teratogen in animals and possibly causes toxic effects upon human reproduction.

The following chemicals comprise of at least 0.1% of this mixture and are listed and/or classified as carcinogens of potential carcinogens by the NTP, IARC, OSHA (mandatory listing) or ACGIH (optional listing).

<u>CAS Number</u> <u>Description</u> <u>% Weight</u> <u>Carcinogen Rating</u>

64742-89-8 Light Aliphatic Solvent Naphtha 50 to 60% Light Alphatic Solvent Naphtha

(Petroleum): EU REACH: Present (P)

Section 12 - Ecological Information

This material has not been tested for ecological effects. **Persistence and degradability:** No data available. **Bioaccumulative potential:** No data available.

Mobility in soil: No data available

Other adverse effects: Contains photochemically reactive solvent.

Component Ectoxicity

Light Aliphatic Solvent	72 Hr EC50 Pseudokirchneriella subcapitata: 4700 mg/L
Naphtha (Petroleum)	
Methyl Ethyl Ketone	96 Hr LC50 Pimephales promelas: 3130 – 3320 mg/L [flow-through]
	48 Hr EC40 Daphnia magna: >520 mg/L; 48 Hr EC50 Daphnia magna: 5091 mg/L; 48 Hr EC50
	Daphnia magna: 4025-6440 mg/L [Static]
Acetone	96 Hr LC50 Oncorhynchus mykiss: 4.74 – 6.33 mL/L; 96 Hr LC50 Pimephales promelas: 6210-
	8120 mg/L [static]; 96 Jr :C50 Lepomis macrochirus: 8300 mg/L
	48 Hr EC50 Daphnia magna: 10294 – 17705 mg/L [Static]; 48 Hr EC50 Daphnia magna: 12600
	- 12700 mg/L
Methyl n-Amyl Ketone	96 Hr LC50 Pimephales promelas: 126 – 137 mg/L [flow-through]
Cutyl Alcohol	96 Hr LC50 Pimephales promelas: 1730-1910 mg/L [static]; 96 Hr LC50 Pimephales promelas:
-	1910000 mg/L [static]
	48 Hr EC50 Daphnia magna: 1983 mg/L; 48 Hr EC50 Daphnia magna: 1897 – 2072 mg/L [static]
	96 Hr EC50 Desmodesmus subspicatus: >500 mg/L; 72 Hr EC50 Desmodesmus subspicatus:
	>500 mg/L.

Section 13 - Disposal Considerations

Product should be disposed of in accordance with all Federal, State and local regulations. Contact a licensed professional waste disposal service to dispose of this material. Subject to hazardous waste generation, treatment, storage and disposal rules under RCRA, 40CFR261.

Section 14 - Transportation Information

The following transportation information is provided based on MM Systems Corporation's interpretation of shipping regulations. Each shipper is responsible for identifying, naming, marking and labeling prior to offering for transport.

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
USDOT	Paint Related Material	UN1263	II	3
IMDG	Paint Related Material	UN1263	II	3
IATA	Paint Related Material	UN1263	II	3

For inner packagings not exceeding 5L each packaged in a strong outer box: Limited Quantity

Section 15 - Regulatory Information

The information listed in this section is not all inclusive of all regulations for this product or the chemical components of this product.

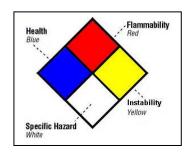
California Hazardous Substance List	None	
	175775	
HAPS — The formulation contains the following HAPS:	None	
NJ RTK The following chemicals are listed under New	71-36-3 Butyl Alcohol 1 to 5%	
Jersey RTK	110-43-0 Methyl n-Amyl Ketone 5 to 10%	
	67-64-1 Acetone 10 to 20%	
	78-93-3 Methyl	
California Proposition 65	WARNING: This product contains the following chemical(s) known to the State	
-	of California to cause birth defects or other reproductive harm –	
	50-00-1 Formaldehyde 24 PPM	
California Proposition 65	WARNING: This product contains the following chemical(s) known to the State	
•	of California	
PA RTK	The following chemicals are listed under Pennsylvania RTK:	
	71-36-3 Butyl Alcohol 1 to 5%	
	110-43-0 Methyl n-Amyl Ketone 5 to 10%	
	67-64-1 Acetone 10 to 20%	
	78-93-3 Methyl Ethyl Ketone 10 to 20%	
EU REACH SIN	The chemicals listed below are on the EU REACH SIN list	
	None	

SARA 312	This Product contains the following chemicals subject to the reporting reuirements of SARA 312: 71-36-3 Butyl Alcohol 1 to 5% 78-93-3 Methyl Ethyl Ketone 10 to 20%
SARA 313	This Product contains the following chemicals subject to the reporting requirements of SARA 313: 67-56-1 Methyl Alcohol 30 to 40 PPM 78-93-3 Methyl Ethyl Ketone 10 to 20%
WHMIS	71-36-3 Butyl Alcohol 1 to 5% 110-43-0 Methyl n-Amyl Ketone 5 to 10% 67-64-1 Acetone 10 to 20% 78-93-3 Methyl Ethyl Ketone 10 to 20%
TSCA	The following are not listed under TSCA: None
SARA	The following are reportable under SARA 71-36-3 Butyl Alcohol 1.0 – 5% 64742-89-8 Light Alphatic Solvent Naphtha (Petroleum) 50 – 60% 78-93-3 Methyl Ethyl Ketone 10 – 20%

Section 16 - Other Information

Note: HMIS Ratings involve data and interpretings that can vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all information contained in this SDS must be considered.





Date Prepared: 1/21/2015

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by MM Systems Corporation to be accurate. As with all chemicals, KEEP AWAY FROM CHILDREN AND ANIMALS. FOR PROFESSIONAL USE ONLY. The hazard information contained herein is offered solely for the consideration of the user, subject to his own investigation and verification of compliance with applicable regulations, including the safe use of the project under every foreseeable condition.



Revision Number: 003.0 Issue date: 08/08/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE 401 ADH INST known as

LOCTITE PRISM 401

Product type: Cyanoacrylate
Restriction of Use: None identified

Company address: Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

IDH number: 229586

Item number: 17738
Region: United States

Contact information: Telephone: (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center

1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: BONDS SKIN IN SECONDS.

COMBUSTIBLE LIQUID. CAUSES EYE IRRITATION.

MAY CAUSE RESPIRATORY IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	4
EYE IRRITATION	2B
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

PICTOGRAM(S)



Precautionary Statements

Prevention:

Keep away from heat, sparks, open flames, hot surfaces - no smoking. Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.

Wear protective gloves, eye protection, and face protection.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Call a poison control center or physician if you feel unwell. If eye irritation persists: Get medical attention. In case of fire: Use foam, dry

chemical or carbon dioxide to extinguish.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place.

Keep cool. Store locked up.

Disposal:

IDH number: 229586

Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Ethyl 2-cyanoacrylate	7085-85-0	60 - 100
Thickener	Proprietary	5 - 10

^{*} Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. If symptoms develop and persist, get medical attention.

Skin contact: Do not pull bonded skin apart. Soak in warm soapy water. Gently peel apart

using a blunt instrument. If skin is burned due to the rapid generation of heat by a large drop, seek medical attention. If lips are bonded, apply warm water to the lips and encourage wetting and pressure from saliva in mouth. Peel or

roll lips apart. Do not pull lips apart with direct opposing force.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. Get medical

attention. If eyelids are bonded closed, release eyelashes with warm water by covering with a wet pad. Do not force eye open. Cyanoacrylate will bond to eye protein and will cause a lachrymatory effect which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of polymerized

cyanoacrylate trapped behind the eyelid caused abrasive damage.

Ingestion: Ensure breathing passages are not obstructed. The product will polymerize

rapidly and bond to the mouth making it almost impossible to swallow. Saliva will separate any solidified product in several hours. Prevent the patient from

swallowing any separated mass.

Symptoms: See Section 11.

Notes to physician: Surgery is not necessary to separate accidentally bonded tissues. Experience

has shown that bonded tissues are best treated by passive, non-surgical first aid. If rapid curing has caused thermal burns they should be treated

symptomatically after adhesive is removed.

5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures: Fire fighters should wear positive pressure self-contained breathing apparatus

(SCBA).

Unusual fire or explosion hazards: Not available.

IDH number: 229586

Hazardous combustion products:

Trace amounts of toxic and/or irritating fumes may be released and the use of

breathing apparatus is recommended.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not allow product to enter sewer or waterways.

Clean-up methods: Do not use cloths for mopping up. Flood with water to complete

polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste. Refer to Section 8 "Exposure Controls / Personal

Protection" prior to clean up.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of

this product. Wash thoroughly after handling. Avoid contact with fabric or paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors, and cause thermal

burns.

Storage: Keep in a cool, well ventilated area away from heat, sparks and open flame.

Keep container tightly closed until ready for use.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Ethyl 2-cyanoacrylate	0.2 ppm TWA	None	None	None
Thickener	None	None	None	None

Engineering controls: Use positive down-draft exhaust ventilation if general ventilation is insufficient

to maintain vapor concentration below established exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

Eye/face protection: Safety goggles or safety glasses with side shields. Full face protection should

be used if the potential for splashing or spraying of product exists.

Skin protection: Use nitrile gloves and aprons as necessary to prevent contact. Do not use

PVC, nylon or cotton.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Color: Colorless, Transparent

Odor: Sharp
Odor threshold: 1 - 2 ppm
pH: Not available.
Vapor pressure: < 0.2 mm hg

Boiling point/range: > 149 °C (> 300.2 °F)

Melting point/ range: Not available.

Specific gravity: 1.05

Vapor density: Approximate 3

Vapor density:

IDH number: 229586

Flash point: 80 - 93 °C (176°F - 199.4 °F)

Product name: LOCTITE 401 ADH INST known as LOCTITE PRISM 401

Page 3 of 6

Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: 485 °C (905°F) **Evaporation rate:** Not available.

Solubility in water: Polymerises in presence of water.

Partition coefficient (n-octanol/water): Not applicable

VOC content: < 2 %; < 20 g/l (California SCAQMD Method 316B) (Estimated)

Viscosity: Not available. **Decomposition temperature:** Not available.

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Hazardous reactions: Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and

alcohols.

Hazardous decomposition

products:

IDH number: 229586

None

Incompatible materials: Water, Amines, Alkalis, Alcohols.

Reactivity: Not available.

Conditions to avoid: Spontaneous polymerization.

TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation: May cause respiratory tract irritation. Exposure to vapors above the established exposure limit

results in respiratory irritation, which may lead to difficulty in breathing and tightness in the

chest.

Skin contact: May cause skin irritation. Bonds skin in seconds. Cyanoacrylates have been reported to cause

allergic reaction but due to rapid polymerization at the skin surface, an allergic response is rare. Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the

skin. Cured adhesive does not present a health hazard even if bonded to the skin.

Eye contact: Irritating to eyes. Causes excessive tearing. Eyelids may bond.

Ingestion: Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It

is almost impossible to swallow.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Ethyl 2-cyanoacrylate	None	Irritant, Allergen, Respiratory
Thickener	None	Irritant

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethyl 2-cyanoacrylate	No	No	No
Thickener	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

Product name: LOCTITE 401 ADH INST known as LOCTITE PRISM 401

Page 4 of 6

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Combustible liquid, n.o.s. (Cyanoacrylate ester)

Hazard class or division: Combustible Liquid

Identification number: NA 1993
Packing group: III

International Air Transportation (ICAO/IATA)

Proper shipping name: Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)

Hazard class or division: 9

Identification number: UN 3334
Packing group: III

Exceptions: Primary packs containing less than 500ml are unregulated by this mode of

transport and may be shipped unrestricted.

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated Hazard class or division: None Identification number: None Packing group: None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire, Reactive

CERCLA/SARA Section 313: None above reporting de minimis

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status: Contains one or more components listed on the Non-Domestic Substances List. All other

components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities.

Please contact Regulatory Affairs for additional details.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by: Catherine Bimler, Regulatory Affairs Specialist

Issue date: 08/08/2014

IDH number: 229586 Product name: LOCTITE 401 ADH INST known as LOCTITE PRISM 401

Page 5 of 6

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

IDH number: 229586



Revision Number: 006.0 Issue date: 10/23/2014

1. PRODUCT AND COMPANY IDENTIFICATION

LOCTITE SF 770 PRIMER known as **Product name:**

LOCTITE® 770™ Primer Prism® P

Product type: Primer Restriction of Use: None identified

Company address: Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

IDH number: 135266

Item number: 18396 Region: **United States**

Contact information: Telephone: (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: HIGHLY FLAMMABLE LIQUID AND VAPOR.

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

CAUSES SKIN IRRITATION.

CAUSES SERIOUS EYE IRRITATION.

MAY CAUSE DROWSINESS OR DIZZINESS.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	2
SKIN IRRITATION	2
EYE IRRITATION	2A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
ASPIRATION HAZARD	1

PICTOGRAM(S)







Precautionary Statements

Prevention: Keep away from heat, sparks, open flames, hot surfaces - no smoking. Keep container tightly

closed. No release into water. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective

gloves, eye protection, and face protection.

Response: IF SWALLOWED: Immediately call a physician or poison control center. If on skin (or hair):

Take off immediately all contaminated clothing. IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Call a poison control center or physician if you feel unwell. Do NOT induce vomiting. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. In case of fire: Use

foam, dry chemical or carbon dioxide to extinguish.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place.

Keep cool. Store locked up.

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local

IDH number: 135266 Product name: LOCTITE SF 770 PRIMER known as LOCTITE® 770™ Primer Prism® P Page 1 of 5

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
n-Heptane	142-82-5	60 - 100

^{*} Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Immediately wash skin thoroughly with soap and water. If symptoms develop

and persist, get medical attention. Wash clothing before reuse.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get

medical attention.

Ingestion: Do not induce vomiting. Get medical attention.

Symptoms: See Section 11.

Notes to physician: Aspiration may cause pulmonary edema or aspiration pneumonia.

5. FIRE FIGHTING MEASURES

Extinguishing media: Foam, dry chemical or carbon dioxide.

Special firefighting procedures: Water should be used to cool closed containers to prevent pressure build-up

and possible autoignition or explosion when exposed to extreme heat.

Unusual fire or explosion hazards: Vapors may accumulate in low or confined areas, travel considerable distance

to source of ignition, and flash back.

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Remove all sources of ignition. Do not allow product to enter sewer or

waterways.

Clean-up methods: Ensure adequate ventilation. Store in a partly filled, closed container until

disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Refer to Section 8 "Exposure Controls /

Personal Protection" prior to clean up.

7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Prevent contact with eves, skin and

clothing. Do not breathe vapor and mist. Wash thoroughly after handling.

Storage: For safe storage, store between 0 °C (32°F) and 49 °C (120.2 °F)

Keep in a cool, well ventilated area. Keep container closed. Store away from

ignition sources.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
n-Heptane	400 ppm TWA 500 ppm STEL	500 ppm (2,000 mg/m3) PEL	None	None

Local exhaust ventilation is recommended when general ventilation is not **Engineering controls:**

sufficient to control airborne contamination below occupational exposure

limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s). Observe OSHA regulations for respirator use (29 CFR 1910.134).

Eye/face protection: Safety glasses with sideshields or chemical safety goggles should be worn if

there is a risk of splashing. Full face protection should be used if the potential

for splashing or spraying of product exists.

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Not available.

Physical state: Liquid

Color: Transparent, colourless, Clear

Odor: Aliphatic Odor threshold: Not available. pH: Not available.

. Vapor pressure:

35 mm hg (20 °C (68°F)) 205 - 210 °F (96.1 - 98.9 °C) None Boiling point/range:

Melting point/ range: Not available.

Specific gravity: 0.68 Vapor density: 3.45

IDH number: 135266

-2 °C (28.4 °F) Flash point:

Flammable/Explosive limits - lower: 1.1 % Flammable/Explosive limits - upper: 6.7 % Autoignition temperature: Not available. Evaporation rate: 2.7 (Ether = 1) Solubility in water: Not miscible Partition coefficient (n-octanol/water): Not available. **VOC** content: 99.9 %; 680 g/l Viscosity: Not available. **Decomposition temperature:**

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous reactions: Will not occur.

Hazardous decomposition

products:

No data

Incompatible materials: Acids. Oxidizing agents.

Reactivity: Not available.

Conditions to avoid: Heat, flames, sparks and other sources of ignition.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation: May cause dizziness, incoordination, headache, nausea, and vomiting.

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation.

Ingestion: This product may be fatal if it is swallowed. Principal hazard of ingestion is aspiration into the

lungs and subsequent pneumonitis.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
n-Heptane	Inhalation LC50 (RAT, 4 h) = 103 mg/l	Central nervous system, Irritant

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
n-Heptane	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: D001: Ignitable.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Heptanes
Hazard class or division: 3
Identification number: UN 1206
Packing group: II

IDH number: 135266 Product name: LOCTITE SF 770 PRIMER known as LOCTITE® 770™ Primer Prism® P

International Air Transportation (ICAO/IATA)

Proper shipping name: Heptanes
Hazard class or division: 3
Identification number: UN 1206

Packing group:

Exceptions: May Qualify as Consumer Commodity, ID8000, (Not more than 500 ml)

Water Transportation (IMO/IMDG)

Proper shipping name: HEPTANES
Hazard class or division: 3
Identification number: UN 1206
Packing group: II

Exceptions: Limited quantity (Not more than 1 L).

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS:
CERCLA/SARA Section 311/312:
CERCLA/SARA Section 313:

None above reporting de minimis
Immediate Health, Delayed Health, Fire
None above reporting de minimis

CERCLA Reportable quantity: n-Heptane (CAS# 142-82-5) 100 lbs. (45.4 kg)

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

IDH number: 135266

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

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