

Material Safety Data Sheet

Material Name: EP Group 96 Plus - Part A

ID: SAH00340

*** Section 1 - Chemical Product and Company Identification ***

Material Name: EP Group 96 Plus - Part A

Product Use

Polyurethane-based adhesive

Manufacturer Information

USA and Puerto Rico

MAPEI

1144 East Newport Center Drive

Deerfield Beach, FL 33442

Phone: 1-954-246-8888

Canada

MAPEI

2900 Francis-Hughes Avenue

Laval, QC H7L 3J5

Phone: 1-450-662-1212

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPLOSION, EXPOSURE OR ACCIDENT, CONTACT THE FOLLOWING NUMBERS:

Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-631-996-6666

*** Section 2 - Hazards Identification ***

Emergency Overview

This product has been evaluated using criteria specified in 29CFR 1910.1200 (Hazard Communication Standard). This product is irritating to the eyes and skin. This product may be harmful or fatal if swallowed. This product is combustible.

Hazard Statements

WARNING! IRRITANT. COMBUSTIBLE. Irritating to eyes and skin. May be harmful or fatal if swallowed. Vapor harmful. Wear suitable gloves, eye/face protection, and respiratory protection. Keep out of the reach of children.

Potential Health Effects: Eyes

This product is irritating to the eyes. Symptoms can include irritation, redness, scratching of the cornea, and tearing.

Potential Health Effects: Skin

This product is irritating to the skin. Mechanical rubbing may increase skin irritation. Prolonged contact with this product may cause allergic skin sensitization reactions.

Potential Health Effects: Ingestion

Ingestion of this product is unlikely. However, ingestion of product may produce gastrointestinal irritation and disturbances.

Potential Health Effects: Inhalation

This product may cause irritation to the respiratory system.

Medical Conditions Aggravated by Exposure

Hypersensitivity to product, allergies, and skin or respiratory disorders

Potential Environmental Effects

No information available for the product.

HMIS Ratings: Health: 2 Fire: 2 Reactivity: 1 Pers. Prot.: Safety glasses, gloves, NIOSH respirator if airborne concentrations exceed exposure limits

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
1317-65-3	Limestone	30-60
Proprietary	Alkyl phenol blocked polyisocyanate	10-30
25085-99-8	Epoxy Resin	5-10

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27138-31-4	Propanol, oxybis-, dibenzoate	3-7
141-78-6	Ethylacetate	1-5
112-80-1	Oleic acid	0.5-1.5
67762-90-7	Dimethyl silicone polymer with silica	0.5-1.5
84852-15-3	4-Nonylphenol, branched	0.5-1.5

*** Section 4 - First Aid Measures ***

First Aid: Eyes

In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. If irritation persists get medical attention.

First Aid: Skin

For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.

First Aid: Ingestion

Get medical attention or advice. For ingestion, flush out mouth with water. Do not induce vomiting.

First Aid: Inhalation

Get medical attention or advice. If inhaled, immediately remove the affected person to fresh air. If the affected person is not breathing, apply artificial respiration.

First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.
This product is combustible at high temperatures.

Hazardous Combustion Products

Irritating and toxic gases or fumes may be released during a fire. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Extinguishing Media

Dry chemical (preferred), foam, water.

Unsuitable Extinguishing Media

None identified.

Specific Hazards Arising From the Chemical

None identified.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA Ratings: Health: 2 Fire: 2 Reactivity: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Personal Precautions

Eliminate ignition sources including sources of electrical, static or frictional sparks. Wear appropriate protective equipment and clothing during clean-up.

Containment Procedures

Contain the discharged material.

Environmental Precautions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Clean-Up Procedures

Attempt to reclaim the free product, if this is possible. Thoroughly wash the area with water after a spill or leak clean-up. Wear appropriate protective equipment and clothing during clean-up. Keep out of the reach of children.

Evacuation Procedures

None identified.

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Special Procedures

Wear appropriate protective equipment and clothing during clean-up.

*** Section 7 - Handling and Storage ***

Handling Procedures

Keep this product from heat, sparks, or open flame. Use only in well ventilated areas. Avoid breathing vapors or mists of this product. Avoid getting this material into contact with your skin and eyes. Keep out of the reach of children.

Storage Procedures

Do not handle or store near an open flame, heat or other sources of ignition. Store in a cool, dry, well-ventilated area. Keep the container tightly closed. Do not freeze.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

A: General Product Information

Keep formation of airborne mists to a minimum.

B: Component Exposure Limits

Limestone (1317-65-3)

OSHA (Final):	15 mg/m3 TWA total dust; 5 mg/m3 TWA respirable fraction
NIOSH:	10 mg/m3 TWA total dust; 5 mg/m3 TWA respirable dust
Alberta:	10 mg/m3 TWA
British Columbia:	10 mg/m3 TWA total dust; 3 mg/m3 TWA respirable fraction 20 mg/m3 STEL total dust
New Brunswick:	10 mg/m3 TWA particulate matter containing no asbestos and < 1% crystalline silica
NW Territories:	5 mg/m3 TWA respirable mass; 10 mg/m3 TWA total mass
Nunavut:	5 mg/m3 TWA respirable mass; 10 mg/m3 TWA total mass
Quebec:	10 mg/m3 TWAEV total dust, containing no asbestos and less than 1% crystalline silica
Saskatchewan:	10 mg/m3 TWA 20 mg/m3 STEL
Yukon:	30 mppcf TWA; 10 mg/m3 TWA 20 mg/m3 STEL

Ethylacetate (141-78-6)

ACGIH:	400 ppm TWA
OSHA (Final):	400 ppm TWA; 1400 mg/m3 TWA
NIOSH:	400 ppm TWA; 1400 mg/m3 TWA
Alberta:	400 ppm TWA; 1440 mg/m3 TWA
British Columbia:	150 ppm TWA
Manitoba:	400 ppm TWA
New Brunswick:	400 ppm TWA; 1440 mg/m3 TWA
NW Territories:	400 ppm TWA; 1441 mg/m3 TWA 500 ppm STEL; 1801 mg/m3 STEL
Nova Scotia:	400 ppm TWA
Nunavut:	400 ppm TWA; 1441 mg/m3 TWA 500 ppm STEL; 1801 mg/m3 STEL
Ontario:	400 ppm TWAEV; 1440 mg/m3 TWAEV
Quebec:	400 ppm TWAEV; 1440 mg/m3 TWAEV
Saskatchewan:	400 ppm TWA 500 ppm STEL
Yukon:	400 ppm TWA; 1400 mg/m3 TWA 400 ppm STEL; 1400 mg/m3 STEL

Engineering Controls

Use general ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses.

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Personal Protective Equipment: Skin

The use of nitrile-latex gloves is recommended.

Personal Protective Equipment: Respiratory

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Personal Protective Equipment: General

Launder contaminated clothing before reuse. Use good industrial hygiene practices in handling this material.

*** Section 9 - Physical & Chemical Properties ***

Appearance:	White paste	Odor:	Slight epoxy odor
Physical State:	Liquid	pH:	N/A
Vapor Pressure:	N/A	Vapor Density:	>1.0
Boiling Point:	>100° F (>38° C)	Melting Point:	N/A
Solubility (H2O):	Insoluble	Specific Gravity:	1.30 - 1.60
Evaporation Rate:	<1.0	VOC:	38 g/L (mixture)
Octanol/H2O Coeff.:	N/A	Flash Point:	104° F (40° C)
Flash Point Method:	CC	Upper Flammability Limit (UFL):	N/A
Lower Flammability Limit (LFL):	N/A	Burning Rate:	N/A
Auto Ignition:	N/A		

Physical Properties: Additional Information

The data provided in this section is to be used for product safety handling purposes. Please refer to Product Data Sheets, Certificates of Conformity or Certificates of Analysis for chemical and physical data for determinations of quality and for formulation purposes.

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable under normal conditions.

Chemical Stability: Conditions to Avoid

Keep away from heat, sparks, or open flame. Eliminate sources of ignition.

Incompatibility

This product may react with strong acids, bases and oxidizing agents.

Hazardous Decomposition

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Possibility of Hazardous Reactions

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Dose Effects

A: General Product Information

No information available for the product.

B: Component Analysis - LD50/LC50

Ethylacetate (141-78-6)

Oral LD50 Rat 5620 mg/kg; Dermal LD50 Rabbit >20 mL/kg; Dermal LD50 Rabbit >18000 mg/kg

Oleic acid (112-80-1)

Oral LD50 Rat 25 g/kg

4-Nonylphenol, branched (84852-15-3)

Oral LD50 Rat 580 mg/kg; Dermal LD50 Rabbit 2031 mg/kg

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Carcinogenicity

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Sensitization

No information available for the product.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Ethylacetate (141-78-6)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	220-250 mg/L	[flow-through]
96 Hr LC50 Oncorhynchus mykiss	484 mg/L	[flow-through]
96 Hr LC50 Oncorhynchus mykiss	352-500 mg/L	[semi-static]
48 Hr EC50 Desmodesmus subspicatus	3300 mg/L	
48 Hr EC50 Daphnia magna	560 mg/L	[Static]

Oleic acid (112-80-1)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	205 mg/L	[static]

4-Nonylphenol, branched (84852-15-3)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	0.135 mg/L	[flow-through]
96 Hr LC50 Lepomis macrochirus	0.1351 mg/L	[flow-through]
96 Hr EC50 Pseudokirchneriella subcapitata	0.36 - 0.48 mg/L	[static]
72 Hr EC50 Pseudokirchneriella subcapitata	0.16 - 0.72 mg/L	[static]
72 Hr EC50 Desmodesmus subspicatus	1.3 mg/L	
48 Hr EC50 Daphnia magna	0.14 mg/L	

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

No additional information available.

B: Component Waste Numbers

Ethylacetate (141-78-6)

RCRA:	waste number U112 (Ignitable waste)
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Disposal Instructions

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Adhesives

UN/NA #: UN1133 Hazard Class: 3 Packing Group: III

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IATA Information

Shipping Name: Adhesives

UN #: UN1133 Hazard Class: 3 Packing Group: III

TDG Information

Shipping Name: Adhesives

UN/NA #: UN1133 Hazard Class: 3 Packing Group: III

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List. All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List unless otherwise noted.

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Ethylacetate (141-78-6)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

State Regulations

A: General Product Information

Other state regulations may apply. Check individual state requirements.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Limestone	1317-65-3	No	Yes	Yes	Yes	Yes	Yes
Ethylacetate	141-78-6	Yes	Yes	Yes	Yes	Yes	Yes
Oleic acid	112-80-1	No	No	No	No	Yes	Yes

Canadian WHMIS Information

A: General Product Information



B: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Ethylacetate	141-78-6	1 %
Oleic acid	112-80-1	1 %

Additional Regulatory Information

A: General Product Information

Supplier(s) of proprietary component(s) state that these components are contained on the TSCA inventory.

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B: Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Limestone	1317-65-3	Yes	NDSL	EINECS
Epoxy Resin	25085-99-8	Yes	DSL	No
Propanol, oxybis-, dibenzoate	27138-31-4	Yes	DSL	EINECS
Ethylacetate	141-78-6	Yes	DSL	EINECS
Dimethyl silicone polymer with silica	67762-90-7	Yes	DSL	No
Oleic acid	112-80-1	Yes	DSL	EINECS
4-Nonylphenol, branched	84852-15-3	Yes	DSL	EINECS

* * * Section 16 - Other Information * * *

Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Key/Legend

NA = Not available or Not Applicable. BLV=Biological Limit Values TLV = Threshold Limit Value. NFPA = National Fire Protection Association. HMIS = Hazardous Material Information System. CFR = Code of Federal Regulations. EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

End of Sheet SAH00340