



Material Safety Data Sheet

Material Name: Mapelastic AquaDefense

ID: NDM0006

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

Material Name: Mapelastic AquaDefense

Product Use

Aqueous Waterproofing Dispersion

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).
Irritating to eyes.

Hazard Statements

CAUTION! Irritating to eyes. Wear suitable gloves and eye/face protection. Keep out of the reach of children. This product contains trace levels (<0.1%) of a potential carcinogen.

Potential Health Effects: Eyes

Irritating to eyes.

Potential Health Effects: Skin

This product may cause irritation to the skin.

Potential Health Effects: Ingestion

Not a likely route of entry. Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

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

None identified.

HMIS Ratings: Health: 1 Fire: 1 Reactivity: 0 Pers. Prot.: safety glasses, gloves

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	15-40
Proprietary	Proprietary Elastomeric Copolymer	15-40
1314-13-2	Proprietary additive	0.1-1
14808-60-7	Silica Sand	<0.1

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Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Calcium carbonates, Benzene compounds, Zinc, inorganic compounds.

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

First Aid: Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

First Aid: Skin

Wash affected area with mild soap and water. If irritation persists, get medical attention.

First Aid: Ingestion

If ingested, get immediate medical attention. Do not induce vomiting unless instructed to do so by medical personnel.

First Aid: Inhalation

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

No additional information available.

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

General Fire Hazards

See Section 9 for Flammability Properties.

This product is an aqueous mixture which will not burn. If evaporated to dryness, the solid residue may pose a slight fire hazard.

Hazardous Combustion Products

Irritating and/or toxic gases may be emitted upon the product's decomposition. 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

No information available for the product.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0

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

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

Personal Precautions

Wear appropriate personal protection equipment.

Containment Procedures

Attempt to reclaim the free product, if this is possible. Scrape up the spilled material. Do not flush spill to drain.

Absorb spill with inert material. Shovel material into appropriate container for disposal.

Environmental Precautions

No information available.

Clean-Up Procedures

Shovel the material into waste container. Thoroughly wash the area with water after a spill or leak clean-up. Wear appropriate protective equipment and clothing during clean-up.

Evacuation Procedures

None necessary.

Special Procedures

Regulations vary. Consult local authorities before disposal. Follow all Local, State, Federal and Provincial regulations for disposal.

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

Handling Procedures

Avoid getting this material into contact with your skin and eyes. Use this product with adequate ventilation. Wash hands after handling and before eating.

Storage Procedures

Keep the container tightly closed and dry. Store at ambient temperature and atmospheric pressure. Do not freeze.

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

Exposure Guidelines

A: General Product Information

Local exhaust is suggested for use, where possible, in enclosed or confined spaces.

B: Component Exposure Limits

Limestone (1317-65-3)

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

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Zinc oxide (1314-13-2)

ACGIH:	2 mg/m3 TWA (respirable fraction) 10 mg/m3 STEL (respirable fraction)
OSHA (Final):	5 mg/m3 TWA (fume); 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
OSHA (Vacated):	5 mg/m3 TWA (fume); 10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) 10 mg/m3 STEL (fume)
NIOSH:	5 mg/m3 TWA (dust and fume) 10 mg/m3 STEL (fume) 15 mg/m3 Ceiling (dust)
Alberta:	10 mg/m3 TWA (dust); 5 mg/m3 TWA (fume) 10 mg/m3 STEL (fume)
British Columbia:	2 mg/m3 TWA (respirable) 10 mg/m3 STEL (respirable)
Manitoba:	2 mg/m3 TWA (respirable fraction) 10 mg/m3 STEL (respirable fraction)
New Brunswick:	5 mg/m3 TWA (fume); 10 mg/m3 TWA (particulate matter containing no asbestos and < 1% crystalline silica, dust) 10 mg/m3 STEL (fume)
NW Territories:	5 mg/m3 TWA (fume); 5 mg/m3 TWA (dust, respirable mass); 10 mg/m3 TWA (dust, total mass) 10 mg/m3 STEL (fume)
Nova Scotia:	2 mg/m3 TWA (respirable fraction) 10 mg/m3 STEL (respirable fraction)
Nunavut:	5 mg/m3 TWA (fume); 5 mg/m3 TWA (dust, respirable mass); 10 mg/m3 TWA (dust, total mass) 10 mg/m3 STEL (fume)
Ontario:	2 mg/m3 TWAEV (respirable) 10 mg/m3 STEV (respirable)
Quebec:	5 mg/m3 TWAEV (fume); 10 mg/m3 TWAEV (total dust, containing no asbestos and less than 1% crystalline silica) 10 mg/m3 STEV (fume)
Saskatchewan	2 mg/m3 TWA (dust and fume, respirable fraction)
n:	10 mg/m3 STEL (dust and fume, respirable fraction)
Yukon:	5 mg/m3 TWA (fume); 30 mppcf TWA (dust); 10 mg/m3 TWA (dust) 10 mg/m3 STEL (fume); 20 mg/m3 STEL (dust)

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Silica Sand (14808-60-7)

ACGIH: 0.025 mg/m3 TWA (respirable fraction)
OSHA 0.1 mg/m3 TWA (respirable dust)
(Vacated):
NIOSH: 0.05 mg/m3 TWA (respirable dust)
Alberta: 0.1 mg/m3 TWA (respirable particulate)
British Columbia: ACGIH Category A2 - Suspected Human Carcinogen; IARC Category 1 - Human Carcinogen
0.025 mg/m3 TWA (respirable)
Manitoba: 0.025 mg/m3 TWA (respirable fraction)
New Brunswick: 0.1 mg/m3 TWA (respirable fraction)
NW Territories: 0.1 mg/m3 TWA (respirable mass); 0.3 mg/m3 TWA (total mass)
Nova Scotia: 0.025 mg/m3 TWA (respirable fraction)
Nunavut: 0.1 mg/m3 TWA (respirable mass); 0.3 mg/m3 TWA (total mass)
Ontario: 0.10 mg/m3 TWAEV
0.10 mg/m3 TWAEV (designated substance regulation)
Quebec: 0.1 mg/m3 TWAEV (respirable dust)
Saskatchewan: 0.05 mg/m3 TWA (respirable fraction)
n:
Yukon: 300 particles/mL TWA

Engineering Controls

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields.

Personal Protective Equipment: Skin

The use of nitrile-latex gloves is recommended.

Personal Protective Equipment: Respiratory

Not normally needed.

Personal Protective Equipment: General

Use good industrial hygiene practices in handling this material.

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

Appearance:	Green to Dark Green Cream	Odor:	slight rubber odor
Physical State:	Viscous Aqueous Dispersion	pH:	8 - 10
Vapor Pressure:	N/A	Vapor Density:	N/A
Boiling Point:	N/A	Melting Point:	N/A
Solubility (H2O):	N/A	Specific Gravity:	1.2 - 1.8
Evaporation Rate:	N/A	VOC:	0 g/L
Octanol/H2O Coeff.:	N/A	Flash Point:	>200F
Flash Point Method:	N/A	Upper Flammability Limit (UFL):	N/A
Lower Flammability Limit (LFL):	N/A	Burning Rate:	N/A
Auto Ignition:	N/A		

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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

This is a stable material.

Chemical Stability: Conditions to Avoid

Avoid strong oxidizing agents. Avoid contact with acids. Do not freeze.

Incompatibility

This product may react with strong oxidizing agents. This product may react with strong acids.

Hazardous Decomposition

At thermal decomposition temperatures carbon monoxide, carbon dioxide, and oxides of nitrogen.

Possibility of Hazardous Reactions

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Dose Effects

A: General Product Information

No information available.

B: Component Analysis - LD50/LC50

Zinc oxide (1314-13-2)

Oral LD50 Rat: >5000 mg/kg

Silica Sand (14808-60-7)

Oral LD50 Rat: 500 mg/kg

Carcinogenicity

A: General Product Information

Exposure to quartz (the most stable and common form of crystalline silica) is responsible for the majority of clinically diagnosed silicosis. Silicosis is a fibronodular lung disease that occurs after occupational exposure to crystalline silica for 5 years or longer. Inhalation of quartz dusts may cause shortness of breath, limitation of chest expansion, dry cough, and a lessened capacity for work. Individuals with a pre-existing disease in, or a history of ailments involving the skin or respiratory tract, are at a greater risk of developing adverse health effects when exposed to this material.

B: Component Carcinogenicity

Elastomeric Copolymer (Proprietary)

IARC: Supplement 7 [1987], Monograph 19 [1979] (Group 3 (not classifiable))

Silica Sand (14808-60-7)

ACGIH: A2 - Suspected Human Carcinogen

NIOSH: potential occupational carcinogen

NTP: Known Human Carcinogen (Select Carcinogen)

IARC: Monograph 68 [1997] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources) (Group 1 (carcinogenic to humans))

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No data available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

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*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

No additional information available.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

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

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

*** Section 14 - Transportation Information ***

International Transportation Regulations

Not regulated as dangerous goods.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

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
Zinc oxide	1314-13-2	Yes	Yes	Yes	Yes	Yes	Yes
Silica Sand	14808-60-7	No	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

Canadian WHMIS Information

A: General Product Information

Not regulated

B: Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

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
Elastomeric Copolymer	Proprietary	Yes	DSL	No
Zinc oxide	1314-13-2	Yes	DSL	EINECS
Silica Sand	14808-60-7	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. However, no warranty, expressed or implied, is 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 NDM0006