### Safety Data Sheet MAPEWRAP 31 T NA / B

Safety Data Sheet dated: 06/23/2025 - version 5

Date of first edition: 09/04/2019



### 1. IDENTIFICATION

#### Product identifier used on the label

Mixture identification:

Trade name: MAPEWRAP 31 T NA / B

Trade code: 9073234

Recommended use of the chemical and restrictions on use

Recommended use: Hardener for epoxy products

Restrictions on use: Not available

Name, U.S. address, and U.S. telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive - 33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

Responsible: RDProductSafety@mapei.com

**Emergency 24 hour numbers:** 

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887

Emergency Transport CANUTEC (Canada) 1-613-996-6666

### 2. HAZARD(S) IDENTIFICATION





#### Classification of the chemical

Acute toxicity (oral), Category 4 Harmful if swallowed.

Serious eye damage, Category 1 Causes serious eye damage.

Skin Sensitization, Category 1A May cause an allergic skin reaction.

Acute aquatic hazard, category 3 Harmful to aquatic life

Chronic (long term) aquatic hazard, category 3 Harmful to aquatic life with long lasting effects. Skin corrosion, Category 1C Causes severe skin burns and eye damage.

**Label elements** 

### **Hazard pictograms and Signal Word**



Danger

#### **Hazard statements**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H402 Harmful to aquatic life

H412 Harmful to aquatic life with long lasting effects.

### **Precautionary statements**

P260 Do not breathe mist/vapours/spray.
P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/clothing and eye/face protection.

P301+P312 IF SWALLOWED: Call a doctor if you feel unwell.

 ${\tt P301+P330+P33}\ \ {\tt IF}\ {\tt SWALLOWED};\ {\tt rinse}\ mouth.\ {\tt Do}\ {\tt NOT}\ {\tt induce}\ {\tt vomiting}.$ 

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P302+P352 IF ON SKIN: Wash with plenty of water.

P303+P361+P35 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P33 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P310 Immediately call a doctor.

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

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with applicable regulations.

### Ingredient(s) with unknown acute toxicity:

None

### Hazards not otherwise classified identified during the classification process:

None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substances**

Not Relevant

#### **Mixtures**

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

#### List of components

Qty	Name	Ident. Numb.	Classification
25-50 %	1,3-benzenedimethanamine; m- phenylenebis(methylamine)	CAS:1477-55-0 EC:216-032-5	Acute Tox. 4, H332; Acute Tox. 4, H302; Aquatic Chronic 3, H412; Aquatic Acute 3, H402; Skin Corr. 1B, H314; Skin Sens. 1B, H317
10-20 %	fatty acids, c18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine; Reaction product of Fatty acids, C18-unsatd., dimers and trimers with amines, polyethylenepoly-, triethylenetetramine fraction	CAS:68082-29-1 EC:500-191-5	Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Dam. 1, H318; Aquatic Chronic 2, H411
5-10 %	cashew nut oil	CAS:8007-24-7 EC:232-355-4	Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1A, H317
0.49-1 %	triethylenetetramine	CAS:112-24-3 EC:203-950-6 Index:612-059-00-5	Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 3, H412; Acute Tox. 4, H312

The actual concentration of the components listed above is withheld as a trade secret.

### **4. FIRST AID MEASURES**

### Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Obtain medical attention if skin related symptoms persist.

 $\label{lem:lemove contaminated clothing immediately and dispose of safely. \\$ 

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Give nothing to eat or drink.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

### Most important symptoms/effects, acute and delayed

Eye irritation

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### Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

#### 5. FIRE-FIGHTING MEASURES

#### **Extinguishing media**

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

### Unsuitable extinguishing media:

None in particular.

#### Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: Not available

Explosive properties: Not available Oxidizing properties: Not Relevant

#### Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

#### **6. ACCIDENTAL RELEASE MEASURES**

#### Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

### Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

### Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

Storage temperature: Not available

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control parameters**

### **Community Occupational Exposure Limits (OEL)**

	OEL Type	Country	Occupational Exposure Limit
1,3-benzenedimethanamine; m- phenylenebis(methylamine)	ACGIH		Short Term: Ceiling - 0.1 mg/m3 Skin - Eye, skin, and GI irr

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CAS: 1477-55-0

**ACGIH** Short Term: Ceiling - 0.1 mg/m3

Skin - potential significant contribution to overall exposure by the cutaneous route; eye, **ACGIH** 

gastrointestinal and skin irritation

**AUSTRIA** MAK Long Term: 0.1 mg/m3; Short Term: 0.1 mg/m3

MAK SWITZERLAN Long Term: 0.1 mg/m3

MAK **AUSTRIA** Short Term: Ceiling - 0.1 mg/m3 **ACGIH** Short Term: Ceiling - 0.1 mg/m3

**ACGIH** Skin - potential significant contribution to overall exposure by the cutaneous route; eye,

gastrointestinal and skin irritation

**ACGIH** Short Term: Ceiling - 0.018 ppm

#### Predicted No Effect Concentration (PNEC) values

Exposure Route: Fresh Water; PNEC Limit: 0.094 mg/kg

benzenedimethanamine;

m-

phenylenebis (methylamine) CAS: 1477-55-0

Exposure Route: Marine water; PNEC Limit: 0.0094 mg/l

Exposure Route: Fresh Water; PNEC Limit: 0.00434 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 0.43 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 0.043 mg/kg Exposure Route: Intermittent release; PNEC Limit: 0.152 mg/l

Exposure Route: Soil; PNEC Limit: 0.045 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l

fatty acids, c18unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine; Reaction product of Fatty acids, C18-unsatd., dimers and trimers with amines,

polyethylenepoly-, triethylenetetramine fraction

CAS: 68082-29-1

Exposure Route: Marine water; PNEC Limit: 0.000434 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 434.02 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 43.4 mg/kg

Exposure Route: Soil; PNEC Limit: 86.78 mg/kg

#### **Derived No Effect Level (DNEL) values**

1,3-Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

benzenedimethanamine; Worker Industry: 0.33 mg/kg m-

phenylenebis (methylamine)

CAS: 1477-55-0

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Industry: 1.2 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Worker Industry: 0.2 mg/m3

fatty acids, c18unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine; Reaction product of Fatty acids, C18-unsatd.,

dimers and trimers with

Exposure Route: Human Inhalation; Exposure Frequency: Long Term (repeated)

Worker Industry: 0.00039 mg/cm2; Worker Professional: 0.00039 mg/cm2; Consumer: 0.000097 mg/cm2

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amines, polyethylenepoly-, triethylenetetramine fraction

CAS: 68082-29-1

Exposure Route: Human Dermal; Exposure Frequency: Long Term (repeated)

Worker Industry: 1.1 mg/kg; Worker Professional: 0.00011 mg/cm2; Consumer: 0.56 mg/kg

triethylenetetramine CAS: 112-24-3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects

Worker Industry: 5380 mg/m3; Consumer: 1600 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Industry: 0.57 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Industry: 1 mg/m3; Consumer: 0.29 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, local effects

Worker Industry: 0.028 mg/m3; Consumer: 0.43 mg/cm2

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects

Consumer: 8 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects

Consumer: 20 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, local effects

Consumer: 1 mg/cm2

Exposure Route: Human Oral; Exposure Frequency: Long Term, local effects

Consumer: 0.43 mg/cm2

Appropriate engineering controls: Not available

#### **Individual protection measures**

Eye protection:

Use close fitting safety goggles, don't use contact lenses.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; 29 CFR 1910.138 - ANSI/ISEA 105:

Polychloroprene - CR: thickness  $\geq$ =0,5mm; breakthrough time  $\geq$ =480min.

Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min.

Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.
Use impervious gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to 29 CFR 1910.134 - CSA Z94.4 for information on selection and use of appropriate respiratory protection equipment.

Use adequate protective respiratory equipment.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: paste white, light yellow

Odour: typical

Odour threshold: Not Relevant

pH: Not Relevant

Melting point / freezing point: Not Relevant

Initial boiling point and boiling range: Not Relevant

Flash point: 100 °C (212 °F)

Evaporation rate: Not Relevant

Upper/lower flammability or explosive Not Relevant

limits:

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Vapour density: Not Relevant

Vapour pressure: Not Relevant

Relative density: 1.15 g/cm3

Solubility in water: partly soluble

Solubility in oil: insoluble

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

Auto-ignition temperature: Not Relevant

Decomposition temperature: Not Relevant

Viscosity: 12,655.00 mPA-s

Explosive properties: N.A.

Oxidizing properties: Not Relevant

Solid/gas flammability: Not Relevant

Other information

Substance Groups relevant properties Not Relevant

Miscibility: Not Relevant

Fat Solubility: Not Relevant

Conductivity: Not Relevant

#### 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### **Chemical stability**

Data not available.

#### Possibility of hazardous reactions

None.

### **Conditions to avoid**

Stable under normal conditions.

### **Incompatible materials**

None in particular.

### **Hazardous decomposition products**

None.

### 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

## **Toxicological Information of the Preparation**

a) acute toxicity The product is classified: Acute toxicity (oral), Category 4(H302)

ATEmix - Oral: 1840.86 mg/kg bw

b) skin corrosion/irritation
 c) serious eye damage/irritation
 d) respiratory or skin sensitisation
 The product is classified: Serious eye damage, Category 1(H318)
 The product is classified: Skin Sensitization, Category 1A(H317)

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

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i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

#### Toxicological information on main components of the mixture:

benzenedimethanamine;

a) acute toxicity

LD50 Oral Mouse = 930 mg/kg

phenylenebis (methylamine)

LD50 Skin Rabbit = 2000 mg/kg

LC50 Inhalation Mist Rat = 1.34 mg/l 4h LC50 Inhalation Rat = 700 ppm 1h

fatty acids, c18-

unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine; Reaction product of Fatty acids, C18-unsatd.,

a) acute toxicity

LD50 Oral Rat > 2000 mg/kg

dimers and trimers with amines, polyethylenepoly-, triethylenetetramine

fraction

LD50 Skin Rat > 2000 mg/kg

cashew nut oil a) acute toxicity LD50 Oral Rat > 1000 mg/kg

triethylenetetramine

a) acute toxicity

LD50 Skin Rabbit 1465 mg/kg LD50 Oral Rat = 2500 mg/kg

### Substance(s) listed on the IARC Monographs:

None

### Substance(s) listed as OSHA Carcinogen(s):

None

#### Substance(s) listed as NIOSH Carcinogen(s):

None

### Substance(s) listed on the NTP report on Carcinogens:

None

#### 12. ECOLOGICAL INFORMATION

#### **Toxicity**

Adopt good working practices, so that the product is not released into the environment. Eco-Toxicological Information:

### List of Eco-Toxicological properties of the product

The product is classified: Acute aquatic hazard, category 3(H402), Chronic (long term) aquatic hazard, category 3(H412)

### List of Eco-Toxicological properties of the components

#### Component Ident. Numb. **Ecotox Data**

1.3-benzenedimethanamine: m-CAS: 1477-55-0 a) Aquatic acute toxicity: EC50 Algae = 20 mg/L 72h phenylenebis(methylamine)

- EINECS: 216-

032-5

a) Aquatic acute toxicity: EC50 Daphnia = 15.2 mg/L 48h

a) Aquatic acute toxicity: LC50 Fish Oryzias latipes = 87.6 mg/L 96h ECHA

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fatty acids, c18-unsaturated, dimers, polymers with tall-oil fatty 1 - EINECS: acids and triethylenetetramine; Reaction product of Fatty acids, C18-unsatd., dimers and trimers with amines, polyethylenepoly-,

triethylenetetramine fraction

CAS: 68082-29- a) Aquatic acute toxicity: LC50 Fish = 7.07 mg/L 96h

a) Aquatic acute toxicity: EC50 Daphnia = 7.07 mg/L 48h a) Aquatic acute toxicity: EC50 Algae > 4.34 mg/L 72h

triethylenetetramine

CAS: 112-24-3 -EINECS: 203-950-6 - INDEX: 612-059-00-5

500-191-5

a) Aquatic acute toxicity: LC50 Fish Poecilia reticulata = 570 mg/L 96h

a) Aquatic acute toxicity: LC50 Fish Pimephales promelas = 495 mg/L 96h TUCL ID

a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 31.1 mg/L 48h

**TUCL ID** 

a) Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus = 2.5 mg/L

72h IUCLID

a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata = 20

mg/L 72h IUCLID

a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata = 3.7

mg/L 96h EPA

#### Persistence and degradability

### Component

#### Persitence/Degradability:

Non-readily biodegradable

fatty acids, c18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine; Reaction product of Fatty acids, C18-unsatd., dimers and trimers with amines, polyethylenepoly-, triethylenetetramine fraction

#### **Bioaccumulative potential**

N.A.

### Mobility in soil

N.A.

### Other adverse effects

N.A.

### 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

### Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

### Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

### Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

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### 14. TRANSPORT INFORMATION

#### **UN** number

DOT-UN Number: UN1760 ADR-UN number: 1760 IATA-Un number: 1760 IMDG-Un number: 1760

### **UN proper shipping name**

DOT-Proper Shipping Name: Corrosive liquids, n.o.s. (m-xylylendiamine) ADR-Shipping Name: CORROSIVE LIQUID, N.O.S. (m-xylylendiamine) IATA-Technical name: CORROSIVE LIQUID, N.O.S. (m-xylylendiamine) IMDG-Technical name: CORROSIVE LIQUID, N.O.S. (m-xylylendiamine)

#### Transport hazard class(es)

DOT-Hazard Class: 8 ADR-Class: 8 IATA-Class: 8 IMDG-Class: 8

### Packing group

DOT Packing Group: III ADR-Packing Group: III IATA-Packing group: III IMDG-Packing group: III

### **Environmental hazards**

Marine pollutant: No

Environmental Pollutant: Not Applicable

DOT-RQ: No

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Applicable

#### Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): IB3, T7, TP1, TP28

DOT-Label(s): 8 DOT-Symbol: N/A DOT-Cargo Aircraft: N/A DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A DOT-Non-Bulk: N/A

DOT-Limited Quantity threshold: 5 L

Road and Rail ( ADR-RID ):

ADR-Label: 8

ADR-Hazard identification number: 80

ADR-Transport category (Tunnel restriction code): 3 (E)

Air (IATA):

IATA-Passenger Aircraft: 852 IATA-Cargo Aircraft: 856

IATA-Label: 8

IATA-Subsidiary hazards: -

IATA-Erg: 8L

IATA-Special Provisioning: A3 A803

Sea ( IMDG ):

IMDG-Stowage and handling: Category A SW2

IMDG-Segregation: IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 223 274

IMDG-EMS: F-A, S-B

### 15. REGULATORY INFORMATION

### **USA - Federal regulations**

#### TSCA - Toxic Substances Control Act

All the components are listed on the TSCA inventory

**TSCA listed substances:** 

1,3-benzenedimethanamine; m- is listed in TSCA Section 8b

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phenylenebis(methylamine)

fatty acids, c18-unsaturated, is listed in TSCA Section 8b dimers, polymers with tall-oil fatty acids and triethylenetetramine; Reaction product of Fatty acids, C18-unsatd., dimers and trimers with amines, polyethylenepoly-, triethylenetetramine fraction

cashew nut oil is listed in TSCA Section 8b triethylenetetramine is listed in TSCA Section 8b

### **SARA - Superfund Amendments and Reauthorization Act**

### **Section 302 - Extremely Hazardous Substances:**

No substances listed

#### Section 304 - Hazardous substances:

No substances listed

### Section 313 - Toxic chemical list:

No substances listed

# CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

No substances listed

#### CAA - Clean Air Act

#### **CAA listed substances:**

No substances listed

#### **CWA - Clean Water Act**

#### **CWA listed substances:**

No substances listed

### **USA - State specific regulations**

#### **California Proposition 65**

### Substance(s) listed under California Proposition 65:

No substances listed

#### Massachusetts Right to know

### Substance(s) listed under Massachusetts Right to know:

 $1, 3\hbox{-benzenedimethanamine; } m\hbox{-phenylenebis} (methylamine)$ 

triethylenetetramine

#### Pennsylvania Right to know

### Substance(s) listed under Pennsylvania Right to know:

1,3-benzenedimethanamine; m-phenylenebis(methylamine)

triethylenetetramine

### New Jersey Right to know

### Substance(s) listed under New Jersey Right to know:

1,3-benzenedimethanamine; m-phenylenebis(methylamine)

triethylenetetramine

### **Canada - Federal regulations**

### **DSL - Domestic Substances List**

All the substances are listed in the DSL.

## **NDSL - Non Domestic Substances List**

This product complies with NDSL inventory

#### **NPRI - National Pollutant Release Inventory**

NPRI (National Pollutant Release Inventory) - List of substances listed.

No substances listed

### **16. OTHER INFORMATION**

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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,

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and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Code	Description
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.
H332	Harmful if inhaled.
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
A.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
A.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
A.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
A.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
A.2/2	Skin Irrit. 2	Skin irritation, Category 2
A.3/1	Eye Dam. 1	Serious eye damage, Category 1
A.4.2/1	Skin Sens. 1	Skin Sensitization, Category 1
A.4.2/1A	Skin Sens. 1A	Skin Sensitization, Category 1A
A.4.2/1B	Skin Sens. 1B	Skin Sensitization, Category 1B
US-HAE/A3	Aquatic Acute 3	Acute aquatic hazard, category 3
US-HAE/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2
US-HAE/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

#### Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

 $ICAO-TI: \ \ Technical \ Instructions \ by \ the \ "International \ Civil \ Aviation \ Organization" \ (ICAO).$ 

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity. WGK: German Water Hazard Class.

KSt: Explosion coefficient.

### Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION

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