# **Safety Data Sheet** MAPEWRAP 21 / A

Safety Data Sheet dated: 06/24/2024 - version 5

Date of first edition: 05/27/2015



## 1. IDENTIFICATION

#### **Product identifier**

Mixture identification:

Trade name: MAPEWRAP 21 / A

Trade code: 9073241

Recommended use of the chemical and restrictions on use

Recommended use: Epoxy resins Restrictions on use: Not available

Name, address, and 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

Responsable: 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

Skin irritation, Category 2 Causes skin irritation.

Eye irritation, Category 2A Causes serious eve irritation. Skin Sensitization, Category 1B May cause an allergic skin reaction.

Acute aquatic hazard, category 2 Toxic to aquatic life

Chronic (long term) aquatic hazard, category 2 Toxic to aquatic life with long lasting effects.

#### **Label elements**

## **Hazard pictograms and Signal Word**



## Warning

## **Hazard statements**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H401 Toxic to aquatic life

Toxic to aquatic life with long lasting effects. H411

## **Precautionary statements**

P261 Avoid breathing mist/vapours/spray. P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of the workplace.

P273 Avoid release to the environment.

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

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

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

8 to do. Continue rinsing.

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

P337+P313 If eye irritation persists: Get medical advice/attention.

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

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

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
50-75 %	bis-[4-(2,3-epoxipropoxi)phenyl]propane	CAS:1675-54-3, 25085- 99-8 EC:216-823-5 Index:603-073-00-2	Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2A, H319; Aquatic Chronic 2, H411; Aquatic Acute 2, H401
25-50 %	1,6-bis(2,3-epoxypropoxy)hexane; 1,6- Hexanediol diglycidyl ether	CAS:16096-31-4 EC:240-260-4	Eye Irrit. 2A, H319; Skin Irrit. 2, H315; Aquatic Chronic 3, H412; Skin Sens. 1B, H317
10-20 %	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and pheno		Skin Irrit. 2, H315; Aquatic Chronic 2, H411; Skin Sens. 1, H317

#### 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.

Remove 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:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

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

## Most important symptoms/effects, acute and delayed

Eye irritation

Eye damages

Skin Irritation

Erythema

## 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).

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## 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 Relevant 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**

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

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

reaction products with 1-chloro-2,3-epoxypropane and phenol

CAS: 9003-36-5

Exposure Route: Fresh Water; PNEC Limit: 0.003 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 0.294 mg/kg

Exposure Route: Marine water; PNEC Limit: 0.0003 mg/l

Exposure Route: Marine water sediments; PNEC Limit: 0.0294 mg/kg

Exposure Route: Soil; PNEC Limit: 0.237 mg/kg

Appropriate engineering controls: Not available

# **Individual protection measures**

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

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

Protection for hands:

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Suitable materials for safety gloves; 29 CFR 1910.138 - ANSI/ISEA 105: Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=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.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: liquid Yellow

Odour: Characteristic

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 limits: Not Relevant

Vapour density: Not Relevant Vapour pressure: Not Relevant Relative density: 1.11 g/cm3 Solubility in water: Insoluble Solubility in oil: Not Relevant

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

Auto-ignition temperature: Not Relevant Decomposition temperature: Not Relevant

Viscosity: Not Relevant

Explosive properties: Not Relevant 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 Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation The product is classified: Skin irritation, Category 2(H315)

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The product is classified: Eye irritation, Category 2A(H319) c) serious eye damage/irritation

d) respiratory or skin sensitisation The product is classified: Skin Sensitization, Category 1B(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

Not classified h) STOT-single exposure

Based on available data, the classification criteria are not met

Not classified i) STOT-repeated exposure

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:

bis-[4-(2,3-

a) acute toxicity

LD50 Skin Rabbit = 20 mg/kg

epoxipropoxi)phenyl]

propane

LD50 Oral Rat =  $11300 \mu L/kg$ 

1,6-bis(2,3-

a) acute toxicity epoxypropoxy)hexane;

1,6-Hexanediol diglycidyl

LD50 Oral Rat 300 mg/kg

Formaldehyde, oligomeric a) acute toxicity

reaction products with 1chloro-2,3-epoxypropane

and phenol

LD50 Oral Rat > 5000 mg/kg

LD50 Skin Rat > 2000 mg/kg

i) STOT-repeated

exposure

NOAEL Oral = 250 mg/kg

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

bis-[4-(2,3-

Group 3

epoxipropoxi)phenyl]propane

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

None

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

## 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 2(H401), Chronic (long term) aquatic hazard, category 2(H411)

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

Component Ident. Numb. **Ecotox Data** 

bis-[4-(2,3-CAS: 1675-54-3, a) Aquatic acute toxicity: LC50 Fish = 2 mg/L 96h

epoxipropoxi)phenyl]propane 25085-99-8 -

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EINECS: 216-823-5 - INDEX: 603-073-00-2

a) Aquatic acute toxicity: EC50 Daphnia = 1.8 mg/L 48h

Formaldehyde, oligomeric reaction CAS: 9003-36-5 a) Aquatic acute toxicity: LC50 Fish = 5.7 mg/L 96h

products with 1-chloro-2,3-- EINECS: 701-

epoxypropane and phenol 263-0

> a) Aquatic acute toxicity: EC50 Daphnia = 2.55 mg/L 48h a) Aquatic acute toxicity: EC50 Algae = 1.8 mg/L 72h

## Persistence and degradability

NΑ

#### **Bioaccumulative potential**

N.A.

## Mobility in soil

NΑ

#### 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 assigned.

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.

## 14. TRANSPORT INFORMATION

#### UN number

DOT-UN Number: UN3082 ADR-UN number: 3082 IATA-Un number: 3082 IMDG-Un number: 3082

## **UN proper shipping name**

DOT-Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (epoxy resins) ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resins) IATA-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resins) IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resins)

# Transport hazard class(es)

DOT-Hazard Class: 9

ADR-Class: 9 IATA-Class: 9 IMDG-Class: 9

## Packing group

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

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IMDG-Packing group: III

#### **Environmental hazards**

Marine pollutant: Yes

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): 8, 146, 173, 335, IB3, T4, TP1, TP29

DOT-Label(s): 9
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 exempt: No ADR-Label: 9

ADR-Hazard identification number: 90

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

#### Air (IATA):

IATA-Passenger Aircraft: 964 IATA-Cargo Aircraft: 964

IATA-Label: 9

IATA-Subsidiary hazards: -

IATA-Erg: 9L

IATA-Special Provisions: A97 A158 A197

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 274 335

IMDG-EMS: F-A, S-F

#### 15. REGULATORY INFORMATION

## **USA - Federal regulations**

## **TSCA - Toxic Substances Control Act**

All the components are listed on the TSCA inventory

## **TSCA listed substances:**

bis-[4-(2,3- is listed in TSCA Section 8b

epoxipropoxi)phenyl]propane

1,6-bis(2,3-epoxypropoxy)hexane; is listed in TSCA Section 8b Section 5a - SNUR Section 12b

1,6-Hexanediol diglycidyl ether

Formaldehyde, oligomeric reaction is listed in TSCA Section 8b

products with 1-chloro-2,3-epoxypropane and phenol

## **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

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## 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:

No substances listed

### Pennsylvania Right to know

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

No substances listed

#### New Jersey Right to know

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

No substances listed

## **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

Code

H315

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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, 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.

Causes skin irritation.

Description

H317	May cause an allergic skin reaction.		
H319	Causes serious eye irritation.		
H401	Toxic 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.2/2	Skin Irrit. 2	Skin irritation, Category 2	
A.3/2A	Eye Irrit. 2A	Eye irritation, Category 2A	
A.4.2/1	Skin Sens. 1	Skin Sensitization, Category 1	
A.4.2/1B	Skin Sens. 1B	Skin Sensitization, Category 1B	
US-HAE/A2	Aquatic Acute 2	Acute aquatic hazard, category 2	
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	

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## 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
- 5. FIRE-FIGHTING MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
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- 14. TRANSPORT INFORMATION
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