

Safety Data Sheet

MAPEFIX PE SF comp. A

Safety Data Sheet dated: 11/06/2021 - version 3

Date of first edition: 09/11/2017



1: Identification

Product identifier

Mixture identification:

Trade name: MAPEFIX PE SF comp. A

Trade code: 9019605

Registration Number N/A

Recommended use of the chemical and restrictions on use

Recommended use: Chemical anchor for metallic rebar

Uses advised against: Data not available

Supplier's details

Company: MAPEI MALAYSIA Sdn Bhd

Lot 754, Lengkok Emas 1, Kawasan Perindustrian Nilai, 71800 Negeri Sembilan, Malaysia

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Emergency phone number

999

2: Hazard identification



Classification of the substance or mixture

Classification of the chemical

Eye Irrit. 2 Causes serious eye irritation.

Skin Sens. 1 May cause an allergic skin reaction.

Adverse physicochemical, human health and environmental effects:

No other hazards

GHS label elements, including precautionary statements

Pictograms and Signal Words



Warning

Hazard statements:

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary statements:

P261 Avoid breathing mist/vapours/spray.

P264 Wash hands thoroughly after handling.

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

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

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.

P321 Specific treatment (see supplementary instructions on this label)

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

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

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

Other hazards which do not result in a classification

No other hazards

3: Composition/information on ingredients

Substances

N.A.

Mixtures

Mixture identification: MAPEFIX PE SF comp. A

Hazardous components within the meaning of the GHS regulation and related classification:

Concentration (% w/w)	Name	Ident. Numb.	Classification	Registration Number
≥10 - <20 %		CAS:2082-81-7 EC:218-218-1	Skin Sens. 1, H317	01-2119967415-30
≥2.5 - <5 %	hydroxypropyl methacrylate	CAS:27813-02-1 EC:248-666-3	Eye Irrit. 2, H319; Skin Sens. 1, H317	01-2119490226-37-XXXX
≥2.5 - <5 %	ethylene dimethacrylate	CAS:97-90-5 EC:202-617-2 Index:607-114-00-5	STOT SE 3, H335; Skin Sens. 1, H317	01-2119965172-38-XXXX
≥1 - <2.5 %	vinyltoluene	CAS:25013-15-4 EC:246-562-2	Flam. Liq. 3, H226; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Asp. Tox. 1, H304; Aquatic Chronic 3, H412	
≥1 - <2.5 %	2,2'-[(4-methylphenyl)imino]bisethanol	CAS:3077-12-1 EC:221-359-1	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318	
≥0.49 - <1 %	1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	CAS:6846-50-0 EC:229-934-9	Repr. 2, H361; Aquatic Chronic 3, H412	01-2119451093-47-XXXX

4: First-aid measures

Description of necessary first-aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- 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 ophthalmologist 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

Indication of immediate medical attention and special treatment needed, if necessary

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.

Special hazards arising from the chemical

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.
- Hazardous combustion products: N.A.
- Explosive properties: N.A.

Oxidizing properties: N.A.

Special protective actions 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.

Environmental precautions

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.

8: Exposure controls/personal protection

Control parameters

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
vinyltoluene	OSHA			480	100				
	ACGIH						100		A4 - Not Classifiable as a Human Carcinogen; eye and upper respiratory tract irritation;
	Malaysi a OEL	MALAYSIA		242	50				
	ACGIH						100		A4 - Not Classifiable as a Human Carcinogen; eye and upper respiratory tract irritation

Appropriate engineering controls: N.A.

Individual protection measures, such as personal protective equipment (PPE)

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:

Suitable materials for safety gloves; EN ISO 374:

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

Nitrile rubber - NBR: thickness $\geq 0,35\text{mm}$; breakthrough time $\geq 480\text{min}$.

Butyl rubber - IIR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Fluorinated rubber - FKM: thickness $\geq 0,4\text{mm}$; breakthrough time $\geq 480\text{min}$.

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN ISO 374 for gloves and EN ISO 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

9: Physical and chemical properties

Physical state: Liquid

Color: Beige

Appearance: paste

Odour: Characteristic

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: N.A.

Evaporation rate: N.A.

Flammability (Solid, Gas): N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour pressure: N.A.

Vapour density: N.A.

Relative density: 1.72 g/cm³

Solubility in water: Insoluble

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: N.A.

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 mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

hydroxypropyl methacrylate	a) acute toxicity	LD50 Oral Rat > 4000 mg/kg
		LD50 Skin Rabbit > 3000 mg/kg
		LD50 Oral Rat = 11200 mg/kg
ethylene dimethacrylate	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg
		LD50 Skin Rat > 2000,00000 mg/kg
vinyltoluene	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg

LD50 Skin Rabbit > 2000 mg/kg
LC50 Inhalation Vapour Rat = 17,8 mg/l
LD50 Oral Rat = 4000 mg/kg

2,2'-[(4-methylphenyl)imino]bisethanol a) acute toxicity LD50 Oral Rat > 300 mg/kg

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate a) acute toxicity LD50 Oral Rat > 2000,00000 mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
Toxicological kinetics, metabolism
and distribution information
- i) STOT-repeated exposure
- j) aspiration hazard

12: Ecological information

Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of components with eco-toxicological properties

Component	Ident. Numb.	Ecotox Infos
hydroxypropyl methacrylate	CAS: 27813-02-1 - EINECS: 248-666-3	a) Aquatic acute toxicity : LC50 Fish = 493 mg/L 48
ethylene dimethacrylate	CAS: 97-90-5 - EINECS: 202-617-2 - INDEX: 607-114- 00-5	a) Aquatic acute toxicity : LC50 Fish Danio rerio = 15,95 mg/L 96h ECHA
vinyltoluene	CAS: 25013-15-4 - EINECS: 246-562-2	a) Aquatic acute toxicity : LC50 Fish = 5,2 mg/L 96 b) Aquatic chronic toxicity : NOEC Fish = 2,6 mg/L b) Aquatic chronic toxicity : NOEC Algae = 1,6 mg/L a) Aquatic acute toxicity : LC50 Fish Pimephales rafinesque = 23,4 mg/L 96h
2,2'-[(4-methylphenyl)imino]bisethanol	CAS: 3077-12-1 - EINECS: 221-359-1	a) Aquatic acute toxicity : LC50 Fish = 735 mg/L 96
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	CAS: 6846-50-0 - EINECS: 229-934-9	a) Aquatic acute toxicity : NOEC Fish Pimephales promelas > 6,00000 mg/L 96h IUCLID a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna > 1,46 mg/L 48h IUCLID

Persistence and degradability

N.A.

Bioaccumulative potential

Component	Bioaccumulation
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	Not bioaccumulative

Mobility in soil

N.A.

Other adverse effects

No Components with environmental hazard properties found.

13: Disposal considerations

Disposal 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

Not classified as dangerous in the meaning of transport regulations.

UN number

N.A.

UN proper shipping name

N.A.

Transport hazard class(es)

N.A.

Packing group, if applicable

Road and Rail (ADR-RID) :

N.A.

ADR-Hazard identification number: NA

Air (IATA) :

N.A.

Sea (IMDG) :

N.A.

Environmental hazards

Marine pollutant: No

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

N.A.

Special precautions for user

N.A.

15: Regulatory information

Safety, health and environmental regulations specific for the product in question

This Safety Data Sheet has been prepared according to P.U. (A) 310 - 2014 and the Industry Code of Practice on Chemicals Classification and Hazard Communication.

16: Other information

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Key literature references and sources:

None

Key/legend to the abbreviations and acronyms:

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.
LTE: Long-term exposure.
STE: Short-term exposure.