

Section 1: Identification of the substance and supplier**Product identifier**

Mixture identification:

Trade name: MAPESIL AC

Trade code: 90489990

Recommended use of the chemical and restrictions on use

Recommended use: Siliconic sealant

Uses advised against: Data not available.

Supplier's details

Company: MBP (NZ) Ltd. - 88 Carbine Road - Mount Wellington - 1060 - Auckland - New Zealand

Phone: +64 9 921 1994 (Mon-Fri 9am-5pm) - Fax: +64 9 921 1993

Responsible: enquiries@MBPLtd.co.nz - www.MBPLtd.co.nz

Emergency phone number

New Zealand National Poisons Centre: Phone 0800 764 766 (for acute poisoning situations)

Chemcall: Phone 0800 243 622 (for chemical based incidents-emergencies)

Section 2: Hazards identification**HSNO 2020 (7th GHS UN rev.) hazard classification**

Not classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020

Hazard information

Not classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Notice 2020.

Other hazards which do not result in a classification

No other hazards

Section 3: Composition/information on ingredients**Substances**

N.A.

Mixtures

Mixture identification: MAPESIL AC

Hazardous components within the meaning of HSNO Act and related classification

Qty	Name	Ident. Numb.	Classification
≥1 - <2.5 %	ethyl-triacetoxy-silane	CAS:17689-77-9 EC:241-677-4	3.3/1, H318; 3.1/4/Oral, H302; 3.2/1B, H314
≥1 - <2.5 %	Methylsilanetriyl triacetate	CAS:4253-34-3 EC:224-221-9	3.1/4/Oral, H302; 3.2/1C, H314; 3.3/1, H318
≥1 - <2.5 %	oligomeric ethyl and methyl acetoxysilanes		3.2/1B, H314; 3.3/1, H318

Section 4: First aid measures**Description of necessary first aid measures**

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

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.

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

Treatment: N.A.

(see paragraph 4.1)

Most important symptoms/effects, acute and delayed

N.A.

Section 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: N.A.
Explosive properties: N.A.
Oxidizing properties: N.A.

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.

Section 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 materials for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand
Retain contaminated washing water and dispose it.

Section 7: Handling and storage

Precautions for safe handling

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

Section 8: Exposure controls/personal protection

Workplace Exposure Standards

Predicted No Effect Concentration (PNEC) values

ethyl-triacetoxy-silane Exposure Route: Fresh Water; PNEC Limit: 0.2 mg/l
CAS: 17689-77-9

Exposure Route: Marine water; PNEC Limit: 0.02 mg/l
Exposure Route: Intermittent release; PNEC Limit: 1.7 mg/l
Exposure Route: Freshwater sediments; PNEC Limit: 0.16 mg/kg
Exposure Route: Marine water sediments; PNEC Limit: 0.016 mg/kg
Exposure Route: Soil; PNEC Limit: 0.031 mg/kg
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1 mg/l

Derived No Effect Level (DNEL) values

ethyl-triacetoxy-silane Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
CAS: 17689-77-9 Worker Industry: 32.5 mg/m³; Consumer: 10.8 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Industry: 32.5 mg/m³; Consumer: 65 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 25 mg/m3; Consumer: 5.1 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Industry: 25 mg/m3; Consumer: 5.1 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Industry: 14.5 mg/kg; Consumer: 7.2 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
Worker Industry: 14.5 mg/kg; Consumer: 7.2 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 1 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects
Consumer: 1 mg/kg

Engineering Controls

N.A.

Personal Protective Equipment (PPE)

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Suitable materials for safety gloves; AS/NZS 2161.10:

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.

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.

Thermal Hazards:

N.A.

Section 9: Physical and chemical properties

Physical state Liquid

Appearance and colour: paste various

Odour: Characteristic

Odour threshold: N.A.

pH: Not Relevant

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: 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: 1,02 g/cm3

Solubility in water: Insoluble

Solubility in oil: soluble

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

Auto-ignition temperature: 400,00 °C

Decomposition temperature: N.A.

Viscosity: 800.000,00 cPs

Kinematic viscosity: N.A.

Particle characteristics:

Section 10: Stability and reactivity

Reactivity

Reacts with water

Chemical stability

Data not available.

Possibility of hazardous reactions

None.

Conditions to avoid

Humidity

Incompatible materials

None in particular.

Hazardous decomposition products

None.

Section 11: Toxicological information**Information on toxicological effects**

During the use of the product it is released a small amount of acetic acid (CAS 64-19-7), that can cause mucous and skin irritation.

Toxicological Information of the Preparation

a) acute toxicity	Not Classified. Based on available data, the classification criteria are not met LD50 Skin Rabbit > 2009 mg/kg LD50 Oral Rat > 2000 mg/kg
b) skin corrosion/irritation	Not Classified. Based on available data, the classification criteria are not met Skin Irritant Skin Rabbit No
c) serious eye damage/irritation	Not Classified. Based on available data, the classification criteria are not met Eye Irritant Rabbit No
d) respiratory or skin sensitisation	Not Classified. Based on available data, the classification criteria are not met Skin Sensitization Guineapig Negative
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
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:

ethyl-triacetoxy-silane a) acute toxicity LD50 Oral Rat > 1460 mg/kg

Methylsilanetriyl triacetate a) acute toxicity LD50 Oral Rat = 1600 mg/kg

Section 12: Ecological information**Ecotoxicity**

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

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

a) Aquatic acute toxicity : LC50 Fish > 10 mg/L 96h

a) Aquatic acute toxicity : EC50 Daphnia > 10 mg/L 48h

- b) Aquatic chronic toxicity : NOEC Fish > 1 mg/L
- b) Aquatic chronic toxicity : NOEC Daphnia > 1 mg/L

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
ethyl-triacetoxy-silane	CAS: 17689-77-9	a) Aquatic acute toxicity : EC50 Daphnia = 62 mg/L 48 9 - EINECS: 241-677-4
		a) Aquatic acute toxicity : LC50 Fish = 251 mg/L 96

Persistence and degradability

Component	Persistence/Degradability:
MAPESIL AC	Non-readily biodegradable

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

Section 13: Disposal considerations

Disposal methods

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

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.

Clean waste packaging should be recycled when possible and authorized by the authority.

Special precautions to be taken during disposal

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.

Section 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

N.A.

Environmental hazards

N.A.

No

Special precautions for user

Road and Rail (ADR-RID):

N.A.

ADR-Hazard identification number: NA

Air (IATA):

N.A.

Sea (IMDG):

Section 15: Regulatory information

HSNO Approval

Not classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

New Zealand Inventory of Chemicals (NZIoC)

All components are listed on the NZIoC Inventory.

Health and Safety at Work Act

Certified Handler

No data available

Regulatory references

Hazardous Substances (Safety Data Sheets) Notice 2017.

Hazardous Substances (Labelling) Notice 2017.

Hazardous Substances (Classification) Notice 2020.

Section 16: Other information

Safety Data Sheet dated: 4/30/2025 - version 3

* Sheet model entirely changed in compliance to regulatory update.

Code	Description
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

Description of the HSNO Classification codes used in section 2 or 3:

Code	Description
3.1/4/Oral	Acute toxicity (oral), Category 4
3.2/1B	Skin corrosion, Category 1B
3.2/1C	Skin corrosion, Category 1C
3.3/1	Serious eye damage, Category 1

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

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

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.

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.

HSNO: Hazardous Substances and New Organisms Act 1996.