

Safety Data Sheet

ULTRABOND ECO MS 4 LVT / WALL

Safety Data Sheet dated: 28/12/2017 - version 1

Date of first edition: 28/12/2017



1. Identification

GHS Product identifier

Mixture identification:

Trade name: ULTRABOND ECO MS 4 LVT / WALL

Trade code: 903586254

Recommended use of the chemical and restrictions on use

Recommended use: Adhesive based on sililated prepolymers

Uses advised against: Data not available.

Supplier's details

Company: MAPEI AUSTRALIA Pty Ltd

180 Viking Drive Wacol QLD 4076 Australia

T. +61 7 32765000 (Mon-Fri 8am to 4.30pm)

F. +61 7 32765076

Emergency phone number

Australian Poisons Information Centre 24 Hour Service 13 11 26

Police or Fire Brigade 000

2. Hazard identification

Classification of the Hazardous chemical

0 The product is not classified as hazardous according to Australia WHS regulation.

Adverse physicochemical, human health and environmental effects:

No other hazards

GHS label elements, including precautionary statements

The product is not classified as hazardous according to Australia WHS regulation.

Other hazards which do not result in a classification

Other Hazards: No other hazards

3. Composition/information on ingredients

Substances

no data available

Mixtures

Hazardous components within the meaning of the "Australian Work Health and Safety (WHS)" regulation and related classification:

Quantity	Name	Ident. Numb.	Classification
1-2.5 %	trimethoxyvinylsilane	CAS:2768-02-7 EC:220-449-8	Flam. Liq. 3, H226; Acute Tox. 4, H332; STOT RE 2, H373
0.1-0.25 %	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	EC:915-687-0	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317

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.

Symptoms caused by exposure

no data available

Medical attention and special treatment

no data available

5. Fire-fighting measures

Suitable extinguishing media

None in particular.

Water.

Carbon dioxide (CO₂).

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: no data available

Explosive properties: ==

Oxidizing properties: no data available

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.

See protective measures under point 7 and 8.

Environmental precautions

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

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Methods and materials for containment and cleaning up

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

Wash with plenty of water.

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

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

8. Exposure controls/personal protection

Control parameters – exposure standards, biological monitoring

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC LIMIT	Exposure Route	Exposure Frequency	Remark
trimethoxyvinylsilane	2768-02-7	0,34 mg/l	Fresh Water		
		110 mg/l	Microorganisms in sewage treatments		
		0,046 mg/kg	Soil		
		0,27 mg/kg	Freshwater sediments		
		3,4 mg/l	Intermittent release		
		0,034 mg/l	Marine water		
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate		0,0022 mg/l	Fresh Water		
		0,00022 mg/l	Marine water		
		0,009 mg/l	Intermittent release		
		1,05 mg/kg	Freshwater sediments		
		0,11 mg/kg	Marine water sediments		

0,21 mg/kg Soil
 1 mg/l Microorganisms in sewage treatments

Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark		
trimethoxyvinylsilane	2768-02-7	0,69 mg/kg	4,9 mg/m3		Human Dermal	Short Term, systemic effects			
					Human Inhalation	Long Term, systemic effects			
		0,69 mg/kg	4,9 mg/m3		Human Dermal	Long Term, systemic effects			
					Human Inhalation	Short Term, systemic effects			
		Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate		2,5 mg/kg		1,25 mg/kg	Human Dermal	Short Term, systemic effects	
						0,58 mg/m3	Human Inhalation	Short Term, systemic effects	
				2,35 mg/m3		0,58 mg/m3	Human Inhalation	Long Term, systemic effects	
						1,25 mg/kg	Human Dermal	Long Term, systemic effects	
				2,5 mg/kg		1,25 mg/kg	Human Oral	Short Term, systemic effects	
						1,25 mg/kg	Human Oral	Long Term, systemic effects	

Appropriate engineering controls

no data available

Individual protection measures, such as 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:

Not needed for normal use.

Respiratory protection:

no data available

9. Physical and chemical properties

- Color: white
- Appearance: paste
- Odour: characteristic
- Odour threshold: no data available
- pH: no data available
- Melting point / freezing point: no data available
- Initial boiling point and boiling range: no data available
- Flash point: no data available
- Evaporation rate: no data available
- Flammability (Solid, Gas): no data available
- Upper/lower flammability or explosive limits: no data available
- Vapour pressure: no data available
- Vapour density: no data available
- Relative density: 1.50 g/cm3
- Solubility in water: no data available
- Solubility in oil: Insoluble
- Partition coefficient (n-octanol/water): no data available
- Auto-ignition temperature: no data available
- Decomposition temperature: no data available
- Viscosity: 30,000.00 cPs
- Specific heat value: no data available
- Saturated vapour concentration: no data available
- Release of invisible flammable vapours and gases: no data available
- Particle size: no data available
- Size distribution: no data available

Shape and aspect ratio: no data available
Crystallinity: no data available
Dustiness: no data available
Surface area: no data available
Degree of aggregation or agglomeration, and dispersibility: no data available
Biodurability or biopersistence: no data available
Surface coating or chemistry: no data available
VOC (Volatile Organic Compound) : 29,8 (Rule 1168) g/L

10. Stability and reactivity

Reactivity

Stable under normal conditions

Chemical stability

no data available

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

SECTION 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:

trimethoxyvinylsilane	a) acute toxicity	LC50 Inhalation Rat = 2773 mg/l 4h LC50 Inhalation Rat = 16,79 mg/l 4h LD50 Skin Rabbit > 3400 mg/kg LD50 Skin Rabbit = 3730 mg/kg
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Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	a) acute toxicity	LD50 Oral Rat = 3,230 mg/kg
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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
- i) STOT-repeated exposure
- j) aspiration hazard

12. Ecological information

Ecotoxicity

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

Eco-Toxicological Information:

List of components with eco-toxicological properties

Quantity	Component	Ident. Numb.	Ecotox Infos
1-2.5 %	trimethoxyvinylsilane	CAS: 2768-02-7 - EINECS: 220-449-8	a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96

0.1-0.25 % Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

EINECS: 915-687-0

- a) Aquatic acute toxicity : LC50 Fish = 191 mg/L 96
- a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 48
- a) Aquatic acute toxicity : EC50 Daphnia = 297,2 mg/L 24
- a) Aquatic acute toxicity : EC50 Daphnia = 168,7 mg/L 48
- a) Aquatic acute toxicity : NOEC Daphnia = 28 mg/L - 21 d
- a) Aquatic acute toxicity : EC50 Algae > 100 mg/L 72
- a) Aquatic acute toxicity : EC50 Algae = 210 mg/L - 7 d
- a) Aquatic acute toxicity : NOEC Algae = 25 mg/L - 7 d
- a) Aquatic acute toxicity : EC50 Daphnia = 20 mg/L 24

- a) Aquatic acute toxicity : EC50 Algae = 1,68 mg/L 72
- a) Aquatic acute toxicity : LC50 Fish = 0,97 mg/L 96
- a) Aquatic acute toxicity : LC50 Fish = 7,9 mg/L 96
- a) Aquatic acute toxicity : LC50 Fish = 0,9 mg/L 96
- b) Aquatic chronic toxicity : NOEC Daphnia = 1 mg/L - 21 d

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

13. Disposal considerations

Disposal methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

14. Transport information

Not classified as dangerous in the meaning of transport regulations.

UN Number

no data available

UN Proper Shipping Name

no data available

Transport hazard class(es)

no data available

Packing group, if applicable

no data available

Environmental hazards

no data available

Special precautions for user

no data available

Additional Information

no data available

HazChem Code/Emergency Action code

no data available

15. Regulatory information

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

This Safety Data Sheet has been prepared according to the Australian Work Health and Safety (WHS) act and the Code of Practice on preparation of safety data sheets for Hazardous Chemicals.

AICS: all components are listed

16. Other information

Code	Description
H226	Flammable liquid and vapour.

- H317 May cause an allergic skin reaction.
- H332 Harmful if inhaled.
- H373 May cause damage to organs through prolonged or repeated exposure .
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

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:

ACGIH: American Conference of Governmental Industrial Hygienists

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

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

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

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

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

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

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

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

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

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KSt: Explosion coefficient.

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

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

LDLo: Leathal Dose Low

N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

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

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

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

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

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