

## Safety Data Sheet

### ULTRABOND ECO S 955 1K

Safety Data Sheet dated: 7/7/2017 - version 2

Date of first edition: 5/3/2017



## 1. Identification

### GHS Product identifier

Mixture identification:

Trade name: ULTRABOND ECO S 955 1K

Trade code: 900743

### Recommended use of the chemical and restrictions on use

Recommended use: Sililated polyurethane adhesive

Uses advised against: no data available

### Supplier's details

Company: MAPEI AUSTRALIA Pty Ltd

180 Viking Drive Wacol QLD 4076 Australia

### 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

Further hazards: Methanol is released by hydrolysis during application.

## 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:

Concentration (% w/w)	Name	Ident. Numb.	Classification
2.5-5 %	vinyltrimethoxysilane	CAS:2768-02-7 EC:220-449-8	Flam. Liq. 3; Acute Tox. 4, H226, H332
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 (CO<sub>2</sub>).

### 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: no data available

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 material 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
vinyltrimethoxysilane	2768-02-7	0,36 mg/l	Fresh Water		
		0,036 mg/l	Marine water		
		2,4 mg/l	Intermittent release		
		0,29 mg/kg	Freshwater sediments		
		0,048 mg/kg	Soil		
		6,6 mg/l	Microorganisms in sewage treatments		

## Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Industrial	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
vinyltrimethoxysilane	2768-02-7	0,2 mg/kg		0,1 mg/kg	Human Dermal		Short Term, systemic effects
		2,6 DXE2H_001		0,7 DXE2H_005	Human Inhalation		Long Term, systemic effects
		0,69 mg/kg		0,1 mg/kg	Human Dermal		Long Term, systemic effects
		2,6 DXE2H_001		0,7 DXE2H_005	Human Inhalation		Short Term, systemic effects
				0,1 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: Beige

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: 62,0 °C (143,6 °F)

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: 1.60 g/cm<sup>3</sup>

Solubility in water: Insoluble

Solubility in oil: partly soluble

Partition coefficient (n-octanol/water): no data available

Auto-ignition temperature: no data available

Decomposition temperature: no data available

Viscosity: 350,000.00 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

Particle size distribution: no data available

Shape and aspect ratio: no data available

Crystallinity: no data available

Dustiness: no data available

Specific 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

## 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

## 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:

vinyltrimethoxysilane	g) reproductive toxicity	NOAEL Oral Rat = 1000 mg/kg	28 d
	i) STOT-repeated exposure	NOAEC Inhalation Vapour Rat = 0,058 mg/l	
		NOAEC Oral Rat = 62,5 mg/kg	
	e) germ cell mutagenicity	NOAEL Inhalation Vapour Rat = 1,7 mg/l	
	a) acute toxicity	LD50 Oral Rat = 7178 mg/kg LD50 Skin Rabbit = 3200 mg/kg LD50 Inhalation Rat = 16,8 mg/l 4h	
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 > 2000 mg/kg	
		LD50 Skin Rat > 3000 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
- 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

Component	Ident. Numb.	Ecotox Infos
vinyltrimethoxysilane	CAS: 2768-02-7 - EINECS: 220-449-8	a) Aquatic acute toxicity : LC50 Fish = 191 mg/L 96  a) Aquatic acute toxicity : EC50 Daphnia = 169 mg/L 48 a) Aquatic acute toxicity : NOEC Daphnia = 28 mg/L - 21 d a) Aquatic acute toxicity : NOEC Algae = 25 mg/L 72
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 = 0,9 mg/L 96  a) Aquatic acute toxicity : EC50 Daphnia = 10 mg/L 24 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.
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

ATEmix: Acute toxicity Estimate (Mixtures)

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: Lethal 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.

**Paragraphs modified from the previous revision:**

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION