

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 71 (replaces version 70)

Revision: 17.01.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: **Rotabond 2000 Brown**

Article number: 34453

1.2 Relevant identified uses of the substance or mixture and uses advised against

FOR PROFESSIONAL AND INDUSTRIAL USE ONLY

Application of the substance / the mixture

Sealant

Adhesive

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

KENT (United Kingdom) Ltd

Forsyth House

Pitreavie Drive

Pitreavie Business Park

Dunfermline

Fife

KY11 8US

Tel: +44 01383 723344 / 0800 136925 Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm

Fax: +44 1383 620079

SDS@kenteurope.com

1.4 Emergency telephone number:

Tel: +44 01383 723344 During normal office hours - Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 The product is not classified, according to the GB CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Additional information:

Contains trimethoxyvinylsilane. May produce an allergic reaction.

Safety data sheet available on request.

2.3 Other hazards Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released during curing.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of the substances listed below with harmless additions.

Dangerous components:

CAS: 13822-56-5 EINECS: 237-511-5 Reg.nr.: 01-2119510159-45	3-(trimethoxysilyl)propylamine Eye Dam. 1, H318; Skin Irrit. 2, H315	<3%
CAS: 68424-38-4 EINECS: 270-299-2 Reg.nr.: 01-2119648083-41	Fatty acids, C16-18, sodium salts Aquatic Chronic 3, H412	<3%
CAS: 870-08-6 EINECS: 212-791-1	dioctyltin oxide Substance with a Community workplace exposure limit. Substance identified as having endocrine disrupting properties (II).	<1%

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 71 (replaces version 70)

Revision: 17.01.2023

Trade name: Rotabond 2000 Brown

(Contd. of page 1)

CAS: 2768-02-7 EINECS: 220-449-8 Reg.nr.: 01-2119513215-52	trimethoxyvinylsilane ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H332; Skin Sens. 1B, H317	<1%
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· **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
 - **After inhalation** Take affected persons into the open air and position comfortably
 - **After skin contact** Instantly wash with water and soap and rinse thoroughly.
 - **After eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
 - **After swallowing**
Rinse out mouth.
In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
Use fire fighting measures that suit the environment.
CO₂, extinguishing powder or water haze. Fight larger fires with water haze or alcohol-resistant foam.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
Carbon monoxide and carbon dioxide
Nitrogen oxides (NO_x)
- **5.3 Advice for firefighters**
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation
- **6.2 Environmental precautions:** No special measures required.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Allow to solidify. Collect mechanically.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Protect from heat and direct sunlight.
Store in cool, dry conditions in well sealed containers.
Protect from humidity and keep away from water.
10-35°C
- **Storage class** 11

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 71 (replaces version 70)

Revision: 17.01.2023

Trade name: Rotabond 2000 Brown

(Contd. of page 2)

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with limit values that require monitoring at the workplace:

870-08-6 dioctyltin oxide

WEL Short-term value: 0.2 mg/m³
Long-term value: 0.1 mg/m³
as Sn; Sk

Regulatory information WEL: EH40/2020

DNELs

471-34-1 Calcium carbonate

Inhalative	Long term systemic effect	10 mg/m ³ (Worker)
	Long term local effect	4.26 mg/m ³ (Worker)

13822-56-5 3-(trimethoxysilyl)propylamine

Dermal	Acute systemic effect	8.3 mg/kg bw/day (Worker)
	Long term systemic effect	8.3 mg/kg/dy (Worker)
Inhalative	Long term systemic effect	58 mg/m ³ /1h (Worker)
	Acute systemic effect	58 mg/m ³ (Worker)

93925-43-0 Silicic acid (H₄SiO₄), tetraethyl ester, reaction products with bis(acetyloxy)dioctylstannane

Oral	Long term systemic effect	0.0015 mg/m ³ (Worker)
Dermal	Long term systemic effect	16.3 mg/kg/bw/day (Worker)

2768-02-7 trimethoxyvinylsilane

Dermal	Long term systemic effect	3.9 mg/kg bw/day (Worker)
Inhalative	Long term systemic effect	27.6 mg/m ³ (Worker)

52829-07-9 Bis 2,2,6,6-tetramethyl-4-piperidyl) sebacate

Dermal	Acute systemic effect	2 mg/kg bw/day (Worker)
	Long term systemic effect	0.5 mg/kg bw/day (Worker)
Inhalative	Long term systemic effect	0.68 mg/kg (Worker)

PNECs

13822-56-5 3-(trimethoxysilyl)propylamine

PNEC	0.33 mg/l (Aqua (freshwater))
	0.033 mg/l (Aqua (marine water))
	0.26 mg/kg (Freshwater sediment)
	13 mg/l (Sewage treatment plant)
	0.04 mg/kg (Soil)

2768-02-7 trimethoxyvinylsilane

PNEC	0.34 mg/l (Aqua (freshwater))
	3.4 mg/l (Aqua (intermittent))
	0.034 mg/l (Aqua (marine water))
	0.27 mg/l (Freshwater sediment)
	110 mg/l (Sewage treatment plant)
	0.046 mg/kg (Soil)

52829-07-9 Bis 2,2,6,6-tetramethyl-4-piperidyl) sebacate

PNEC	0.018 mg/l (Aqua (freshwater))
	0.0018 mg/l (Aqua (marine water))
	29 mg/kg (Freshwater sediment)
	2.9 mg/kg (Marine water sediment)
	5.9 mg/kg (Soil)

Ingredients with biological limit values:

Additional Occupational Exposure Limit Values for possible hazards during processing:

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released during curing.

67-56-1 methanol

WEL	Short-term value: 333 mg/m ³ , 250 ppm
	Long-term value: 266 mg/m ³ , 200 ppm
	Sk

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 71 (replaces version 70)

Revision: 17.01.2023

Trade name: Rotabond 2000 Brown

(Contd. of page 3)

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures** Wash hands during breaks and at the end of the work.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Hand protection**



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

Wear suitable gloves tested to EN 374

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.7 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

Value for the permeation: Level 6 > 480 minutes

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye/face protection**



Safety glasses (EN 166)

- **Body protection:** Protective work clothing (EN-13034/6)

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- | | |
|---|-------------------------------|
| · Physical state | Solid |
| · Colour: | Brown |
| · Odour: | Mild |
| · Odour threshold: | Not determined. |
| · Melting point/freezing point: | Not determined |
| · Boiling point or initial boiling point and boiling range | Not determined |
| · Flammability | Not determined. |
| · Lower and upper explosion limit | |
| · Lower: | Not determined. |
| · Upper: | Not determined. |
| · Flash point: | Not applicable |
| · Decomposition temperature: | Not determined. |
| · pH | Mixture is non-polar/aprotic. |
| · Viscosity: | |
| · Kinematic viscosity | Not applicable. |
| · dynamic at 20 °C: | 6000 - 14000 Pas |
| · Solubility | |
| · Water: | Unsoluble |
| · Partition coefficient n-octanol/water (log value) | Not determined. |
| · Vapour pressure: | Not applicable. |
| · Density and/or relative density | |
| · Density at 20 °C | 1.48 g/cm ³ |
| · Relative density | Not determined. |
| · Vapour density | Not applicable. |

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 71 (replaces version 70)

Revision: 17.01.2023

Trade name: Rotabond 2000 Brown

(Contd. of page 4)

9.2 Other information

Appearance:

Form:

Pasty

Important information on protection of health and environment, and on safety.

Self-inflammability:

Product is not selfigniting.

Explosive properties:

Product is not explosive.

Solvent content:

Organic solvents:

NIL VOC

Change in condition

Evaporation rate

Not applicable.

Information with regard to physical hazard classes

Explosives

Void

Flammable gases

Void

Aerosols

Void

Oxidising gases

Void

Gases under pressure

Void

Flammable liquids

Void

Flammable solids

Void

Self-reactive substances and mixtures

Void

Pyrophoric liquids

Void

Pyrophoric solids

Void

Self-heating substances and mixtures

Void

Substances and mixtures, which emit flammable gases in contact with water

Void

Oxidising liquids

Void

Oxidising solids

Void

Organic peroxides

Void

Corrosive to metals

Void

Desensitised explosives

Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification:

13822-56-5 3-(trimethoxysilyl)propylamine

OECD 437	<3 (Bovine Cornea) (OCED Test No. 437)
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870-08-6 dioctyltin oxide

Oral	LD50	2,500 mg/kg (Rat)
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93925-43-0 Silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acetyloxy)dioctylstannane

Oral	LD50	>2,000 mg/kg (Rat)
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Dermal	LD50	>2,000 mg/kg (Rat)
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2768-02-7 trimethoxyvinylsilane

Oral	LD50	7,120 mg/kg (Rat)
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Sensitisation	OECD Test No. 406	Not a skin sensitiser (Guinea pig)
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	OECD Test No. 405	(Rabbit) (Acute Eye irritation / corrosion: Non irritant)
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(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 71 (replaces version 70)

Revision: 17.01.2023

Trade name: Rotabond 2000 Brown

(Contd. of page 5)

52829-07-9 Bis 2,2,6,6-tetramethyl-4-piperidyl) sebacate

Oral	LD50	>2,000 mg/kg (Rat) (OECD 423)
Dermal	LD50	>3,170 mg/kg (Rat) (OECD 402)

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

· **Serious eye damage/irritation**

No classification is proposed, based on conclusive negative data. By analogy to another tested similar product:

No irritation after contact to the eyes. (H319 is void).

3-(trimethoxysilyl)propylamine CAS 13822-56-5

OECD 437 Bovine Corneal Opacity and Permeability (BCOP) test

Corneal / Bovine / Exposure time 10 mins; Product score <3 Non-irritant

Based on available data, the classification criteria are not met.

· **Respiratory or skin sensitisation**

OECD Test No. 406: Skin Sensitisation. No sensitisation responses were observed. No classification is proposed, based on conclusive negative data.

May cause sensitisation in susceptible persons.

Trimethoxyvinylsilane CAS 2768-02-7

OECD Test No. 406 Skin sensitisation

Dermal / Guinea pig: Not a skin sensitiser

Based on available data, the classification criteria are not met.

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity** Based on available data, the classification criteria are not met.

· **Reproductive toxicity** Based on available data, the classification criteria are not met.

· **STOT-single exposure** Based on available data, the classification criteria are not met.

· **STOT-repeated exposure** Based on available data, the classification criteria are not met.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

870-08-6 dioctyltin oxide

List II

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

471-34-1 Calcium carbonate

EC50	>1,000 mg/l (Activated sludge) (OECD 209 3 hrs)
EC50 (72 hr)	>200 mg/l (Algae)
	>14 mg/l (Desmodesmus subspicatus) (OECD 202)
NOEC	1,000 mg/l (Activated sludge) (OECD 209 3 hrs)
NOELR	14 mg/l (Desmodesmus subspicatus) (OECD 201 72 hrs)

13822-56-5 3-(trimethoxysilyl)propylamine

EC50 (48 hr)	331 mg/l (Daphnia magna) (OECD 202)
EC50 (72 hr)	>1,000 mg/l (Desmodesmus subspicatus) (EU Method C.3 (Algal Inhibition test))
LC50 (96 hr)	>934 mg/l (Danio rerio (Zebra fish; semistatic)) (OECD 203)

68424-38-4 Fatty acids, C16-18, sodium salts

EC50	120 mg/l (Desmodesmus subspicatus) (96 hrs)
EC50 (72 hr)	86 mg/l (Water flea (Ceriodaphnia dubia))

93925-43-0 Silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acetyloxy)dioctylstannane

EC50 (48 hr)	331 mg/l (Daphnia magna) (OECD 202)
LC50 (96 hr)	>100 mg/l (Cyprinus carpio) (OECD 203)

2768-02-7 trimethoxyvinylsilane

EC10	1,000 (Pseudomonas Putida) (5 hours)
EC50 (48 hr)	169 mg/l (Daphnia magna)
EC50 (72 hr)	210 mg/l (Selenastrum capricornutum)
	>957 mg/l (Desmodesmus subspicatus) (EU Method C.3)
LC50 (96 hr)	191 mg/l (Oncorhynchus mykiss)
NOEC (72 hr)	25 mg/l (Selenastrum capricornutum)
NOEC (21 days)	28 mg/l (Daphnia magna) (Reproduction)

(Contd. on page 7)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 71 (replaces version 70)

Revision: 17.01.2023

Trade name: Rotabond 2000 Brown

(Contd. of page 6)

52829-07-9 Bis 2,2,6,6-tetramethyl-4-piperidyl) sebacate

EC50 (24 hr)	17 mg/l (Daphnia magna) (OECD 202)
EC50	1.9 mg/l (Algae (Scenedesmus subspicatus)) (DIR 92/69/EC)
EC50 (72 hr)	0.705 mg/l (Pseudokirchneriella subcapitata)
LC50	5,290 ug/l (Fish)
	0.013 ug/l (Oncorhynchus mykiss) (OECD 203)
LC50 (48 hr)	8.58 mg/l (Daphnia magna)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---|--|
| · 14.1 UN number or ID number | |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name | |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | Void |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| · Transport/Additional information: | Not dangerous according to the above specifications. |
| · UN "Model Regulation": | Void |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

(Contd. on page 8)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 71 (replaces version 70)

Revision: 17.01.2023

Trade name: Rotabond 2000 Brown

(Contd. of page 7)

· **National regulations**

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

· **Department issuing data specification sheet:** Environment protection department

· **Abbreviations and acronyms:**

RID: (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· **Data compared to the previous version altered.** *