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

1.1. Product identifier

Product form : Mixture

Trade name : Parabond 800

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

1.2.1. Relevant identified uses

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

DL CHEMICALS
Roterijstraat 201-203
B-8793 Waregem - Belgium
T + 32 56 62 70 51 - F + 32 56 60 95 68
info@dl-chem.com - www.dl-chem.com

1.4. Emergency telephone number

Emergency number : + 32 70 245 245

Country	Official advisory body	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH208 - Contains Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine, N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide), 3-(2-aminoethylamino)propyltrimethoxysilane. May produce an allergic reaction.
EUH210 - Safety data sheet available on request.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
vinyltrimethoxysilane	(CAS-No.) 2768-02-7 (EC-No.) 220-449-8 (REACH-no) 01-2119513215-52	2,5 - 5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373
3-(2-aminoethylamino)propyltrimethoxysilane	(CAS-No.) 1760-24-3 (EC-No.) 217-164-6 (REACH-no) 01-2119970215-39	1 - 2,5	Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411

Specific concentration limits:

Name	Product identifier	Specific concentration limits
3-(2-aminoethylamino)propyltrimethoxysilane	(CAS-No.) 1760-24-3 (EC-No.) 217-164-6 (REACH-no) 01-2119970215-39	(3 =<C < 100) Eye Dam. 1, H318 (3 =<C < 100) Skin Sens. 1, H317

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Move to fresh air.

First-aid measures after skin contact : Wash with plenty of water/….

First-aid measures after eye contact : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

First-aid measures after ingestion : Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

Symptoms/effects after skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use.

Symptoms/effects after eye contact : Direct contact with the eyes is likely slightly irritating.

Symptoms/effects after ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : All extinguishing media allowed.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not combustible.

5.3. Advice for firefighters

Precautionary measures fire : Exercise caution when fighting any chemical fire. Evacuate unnecessary personnel. Do not breathe fumes from fires or vapours from decomposition.

Firefighting instructions : Cool down the containers exposed to heat with a water spray.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Equip cleanup crew with proper protection. [In case of inadequate ventilation] wear respiratory protection.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid all unnecessary exposure.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, well-ventilated area.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

calcium carbonate (471-34-1)		
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ inhalable dust 4 mg/m³ respirable dust

1.

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR), Butyl rubber	6 (> 480 minutes)			EN ISO 374

Eye protection:

Type	Use	Characteristics	Standard
Safety glasses		With side shields	EN 166

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

Other information:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance	: Paste.
Colour	: According to product specification.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: practically insoluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Additional hazards when processed. release of (highly) toxic gases/vapours. Methanol.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

3-(2-aminoethylamino)propyltrimethoxysilane (1760-24-3)	
LD50 oral rat	2295 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 1,49 mg/l/4h

vinyltrimethoxysilane (2768-02-7)	
LD50 oral rat	7120 mg/kg

vinyltrimethoxysilane (2768-02-7)	
LD50 dermal rabbit	3540 mg/kg
LC50 inhalation rat (mg/l)	16,79 mg/l/4h
LC50 inhalation rat (ppm)	2773 ppm/4h (OECD 403 method)
LC50 inhalation rat (Dust/Mist - mg/l/4h)	16,8 mg/l/4h

Polyetherpolyol (31568-06-6)	
LD50 oral rat	> 5000 mg/kg (OECD 423 method)
LD50 dermal rat	> 2000 mg/kg
LD50 dermal rabbit	> 3000 mg/kg (OECD 402 method)

calcium carbonate (471-34-1)	
LD50 oral rat	> 2000 mg/kg (OECD 420 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)
LC50 inhalation rat (mg/l)	> 3 mg/l/4h (OECD 403 method)

CALCIUM STEARATE (1592-23-0)	
LD50 oral rat	> 10000 mg/kg

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

calcium carbonate (471-34-1)	
NOAEL (oral, rat)	1000 mg/kg bodyweight (OECD 422 method)

STOT-repeated exposure : Not classified

vinyltrimethoxysilane (2768-02-7)	
LOAEL (oral, rat, 90 days)	10 - 100 mg/kg bodyweight/day

Polyetherpolyol (31568-06-6)	
NOAEL (subchronic, oral, animal/male, 90 days)	>= 1000 mg/kg bodyweight

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

3-(2-aminoethylamino)propyltrimethoxysilane (1760-24-3)	
LC50 fish 1	597 mg/l Brachydanio rerio (zebra-fish)
EC50 Daphnia 1	81 mg/l
EC50 72h algae (1)	67 mg/l
ErC50 (algae)	8,8 mg/l (OECD 201 method)
NOEC (chronic)	> 1 mg/l
NOEC chronic algae	3,1 mg/l (OECD 201 method)

vinyltrimethoxysilane (2768-02-7)	
LC50 fish 1	191 mg/l
EC50 Daphnia 1	168,7 mg/l
EC50 72h algae (1)	> 957 mg/l
ErC50 (algae)	> 100 mg/l (OECD 201 method)
NOEC chronic fish	>= 100 mg/l
NOEC chronic crustacea	28 mg/l
NOEC chronic algae	957 mg/l

Polyetherpolyol (31568-06-6)	
LC50 fish 1	> 100 mg/l (OECD 203 method)
EC50 Daphnia 1	> 100 mg/l (OECD 202 method)
EC50 72h algae (1)	> 100 mg/l (OECD 201 method)
NOEC chronic crustacea	>= 10 mg/l (OECD 211 method)

calcium carbonate (471-34-1)	
LC50 fish 1	> 10000 mg/l (OECD 203 method)
EC50 Daphnia 1	> 100 mg/l (OECD 202 method)
EC50 other aquatic organisms 2	> 1000 mg/l (OECD 209 method)
EC50 72h algae (1)	> 200 mg/l
ErC50 (algae)	> 1000 mg/l (OECD 201 method)
NOEC (acute)	14 mg/l (OECD 201 method)

12.2. Persistence and degradability

3-(2-aminoethylamino)propyltrimethoxysilane (1760-24-3)	
Biodegradation	39 % (OECD 301A method)

Polyetherpolyol (31568-06-6)	
Persistence and degradability	Readily biodegradable.
Biodegradation	> 60 % (OECD 301F method)

12.3. Bioaccumulative potential

calcium carbonate (471-34-1)	
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

Polyetherpolyol (31568-06-6)	
Log Koc	0 - 1

calcium carbonate (471-34-1)	
Ecology - soil	insoluble in water.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

European List of Waste (LoW) code : 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14: Transport information

In accordance with ADR

ADR

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Dangerous for the environment : No

No supplementary information available

14.6. Special precautions for user

- Overland transport

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:	
3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	reaction mass of: isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-(n)-dodecylphenol, isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-(n)-tetracosylphenol, isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-5,6-didodecyl-phenol. n = 5 or 6 ; Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate ; reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate ; methanol ; N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine ; vinyltrimethoxysilane ; 3-(2-aminoethylamino)propyltrimethoxysilane ; N,N'-bis-(3-(trimethoxysilyl)propyl)-1,2-ethanediamine ; N,N-bis[3-(trimethoxysilyl)propyl]-1,2-ethanediamine ; 1-(2-aminoethyl)-2,2-dimethoxy-1-aza-2-silacyclopentane ; dioctyl tin oxide ; propan-2-ol; isopropyl alcohol; isopropanol ; dichlorodioctyl stannane
3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	methanol ; vinyltrimethoxysilane ; propan-2-ol; isopropyl alcohol; isopropanol
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate ; methanol ; N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine ; vinyltrimethoxysilane ; 3-(2-aminoethylamino)propyltrimethoxysilane ; N,N'-bis-(3-(trimethoxysilyl)propyl)-1,2-ethanediamine ; N,N-bis[3-(trimethoxysilyl)propyl]-1,2-ethanediamine ; 1-(2-aminoethyl)-2,2-dimethoxy-1-aza-2-silacyclopentane ; dioctyl tin oxide ; propan-2-ol; isopropyl alcohol; isopropanol ; dichlorodioctyl stannane

3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	reaction mass of: isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-(n)-dodecylphenol, isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-(n)-tetracosylphenol, isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-5,6-didodecyl-phenol. n = 5 or 6 ; Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate ; reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate ; N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine ; 3-(2-aminoethylamino)propyltrimethoxysilane ; dichlorodioctyl stannane
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	methanol ; vinyltrimethoxysilane

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
EUH208	Contains Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine, N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide), 3-(2-aminoethylamino)propyltrimethoxysilane. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

MSDS Reach Annex II DL-Chem

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.