

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 53 (replaces version 52)

Revision: 12.01.2023

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

1.1 Product identifier

Trade name: **PROSEAL 404 BLACK**

Article number: 86498

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

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@kent europe.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: 28553-12-0 EINECS: 249-079-5 Reg.nr.: 01-2119430798-28	diisononyl phthalate substance with a Community workplace exposure limit	5-10%
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: 68515-48-0 EINECS: 271-090-9 Reg.nr.: 01-2119432682-41	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich substance with a Community workplace exposure limit	<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%

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 53 (replaces version 52)

Revision: 12.01.2023

Trade name: PROSEAL 404 BLACK

(Contd. of page 1)

· **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:** Do not allow to enter drainage system, surface or ground water.

· 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.

Store container in a well ventilated position.

Protect from humidity and keep away from water.

10-35°C

· **Storage class** 10

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

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 53 (replaces version 52)

Revision: 12.01.2023

Trade name: PROSEAL 404 BLACK

(Contd. of page 2)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with limit values that require monitoring at the workplace:

As Carbon black (1333-86-4) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses.

28553-12-0 diisononyl phthalate		
WEL	Long-term value: 5 mg/m ³	
68515-48-0 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich		
OES	Long-term value: 5 mg/m ³	
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)
28553-12-0 diisononyl phthalate		
Dermal	Long term systemic effect	366 mg/kg (Worker)
Inhalative	Long term systemic effect	51.72 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)
1333-86-4 Carbon black		
Inhalative	Long term systemic effect	2 mg/m ³ (Worker)
	Long term local effect	2 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		
28553-12-0 diisononyl phthalate		
PNEC	30 mg/kg (Soil)	
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)	

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 53 (replaces version 52)

Revision: 12.01.2023

Trade name: PROSEAL 404 BLACK

(Contd. of page 3)

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/m³, 250 ppm
Long-term value: 266 mg/m³, 200 ppm
Sk

- **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 | Fluid |
| · Colour: | Black |
| · Odour: | Characteristic |
| · Odour threshold: | Not determined. |
| · Melting point/freezing point: | Not determined |
| · Boiling point or initial boiling point and boiling range | Not determined |
| · Flammability | Not applicable. |
| · Lower and upper explosion limit | |
| · Lower: | Not determined. |
| · Upper: | Not determined. |
| · Flash point: | 61 °C |
| · Decomposition temperature: | Not determined. |
| · pH | Mixture is non-polar/aprotic. |
| · Viscosity: | |
| · Kinematic viscosity | Not determined. |

(Contd. on page 5)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 53 (replaces version 52)

Revision: 12.01.2023

Trade name: PROSEAL 404 BLACK

(Contd. of page 4)

· dynamic:	Not determined.
· Solubility	
· Water:	Not miscible / difficult to mix
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C	1.37 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

· 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 determined.

· 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)

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 53 (replaces version 52)

Revision: 12.01.2023

Trade name: PROSEAL 404 BLACK

(Contd. of page 5)

68515-48-0 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich		
Oral	LD50	>10,000 mg/kg (Rat)
Dermal	LD50	>3,160 mg/kg (Rabbit)
93925-43-0 Silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acetyloxy)dioctylstannane		
Oral	LD50	>2,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)
2768-02-7 trimethoxyvinylsilane		
Oral	LD50	7,120 mg/kg (Rat)
Sensitisation	OECD Test No. 406	Not a skin sensitiser (Guinea pig)
	OECD Test No. 405	(Rabbit) (Acute Eye irritation / corrosion: Non irritant)
1333-86-4 Carbon black		
Oral	LD50	10,000 mg/kg (Rat)
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**

None of the ingredients is listed.

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)

28553-12-0 diisononyl phthalate

EC50	>88 mg/l (Algae (Scenedesmus subspicatus))
LC50 (48 hr)	>74 mg/l (Daphnia magna)
LC50 (96 hr)	>102 mg/l (Brachydanio rerio)

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))

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 53 (replaces version 52)

Revision: 12.01.2023

Trade name: PROSEAL 404 BLACK

(Contd. of page 6)

LC50 (96 hr)	>934 mg/l (Danio rerio (Zebra fish; semistatic)) (OECD 203)
68515-48-0 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	
EC50	>2.8 mg/l (Pseudokirchneriella subcapitata) (96 hr)
EC50 (48 hr)	>0.086 mg/l (Daphnia magna)
LC50	>520 ug/l (Fish) (Cyprindon variegatus)
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)
1333-86-4 Carbon black	
EC50 (24 hr)	>5,600 mg/l (Daphnia magna) (OECD 202)
LC50 (96 hr)	>1,000 mg/l (Brachydanio rerio) (OECD 203)
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** The product does not contain substances with endocrine disrupting properties.
- **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

(Contd. on page 8)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 53 (replaces version 52)

Revision: 12.01.2023

Trade name: PROSEAL 404 BLACK

(Contd. of page 7)

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