



SAFETY DATA SHEET

FLAMEX ONE

This SDS is not mandated under REACH Regulation (EC) No 1907/2006 and is provided for information only.

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

1.1. Product identifier

Product name FLAMEX ONE

Product number 1493000UK9, 1493002UK9, 1492000UK9

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

Identified uses One part low movement intumescent sealant.

1.3. Details of the supplier of the safety data sheet

Supplier Fosroc Limited
Drayton Manor Business Park
Coleshill Road
Tamworth
Staffordshire
B78 3XN
England
Tel: +44 (0) 1827 262222
Fax: +44 (0) 1827 262444
enquiryuk@fosroc.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 1827 265 279 (Monday-Sunday 24 hours a day)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Human health The product is considered to be a low hazard under normal conditions of use. Prolonged skin contact may cause redness and irritation.

Environmental The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Hazard statements NC Not Classified

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

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3.2. Mixtures

CALCIUM CARBONATE			10-30%
CAS number: 471-34-1	EC number: 207-439-9		
Classification Not Classified	Classification (67/548/EEC or 1999/45/EC) -		
ALUMINIUM HYDROXIDE			10-30%
CAS number: 21645-51-2	EC number: 244-492-7	REACH registration number: 01-2119529246-39-xxxx	
Classification Not Classified	Classification (67/548/EEC or 1999/45/EC) -		
DIPROPYLENE GLYCOL DIBENZOATE			5-10%
CAS number: 27138-31-4	EC number: 248-258-5		
Classification Aquatic Chronic 3 - H412			
TITANIUM DIOXIDE			1-5%
CAS number: 13463-67-7	EC number: 236-675-5	REACH registration number: 01-2119489379-17-XXXX	
Classification Not Classified			
OCTYLPHENOL, ETHOXYLATED			<1%
CAS number: 9002-93-1	EC number: 932-665-6		
Classification Acute Tox. 4 - H302 Aquatic Chronic 3 - H412			
ETHANEDIOL			<1%
CAS number: 107-21-1	EC number: 203-473-3	REACH registration number: 01-2119456816-28	
Classification Acute Tox. 4 - H302 STOT RE 2 - H373			

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments

This product contains a substance at a concentration of ≥ 0.1 % w/w which is included in the candidate list according to Article 59 (1, 10) of REACH Regulation EC No. 1907/2006:
Octylphenol, ethoxylated (CAS No. 9002-93-1)

SECTION 4: First aid measures

4.1. Description of first aid measures

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General information	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Inhalation	Move affected person to fresh air at once.
Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.
Eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

Inhalation	Irritation of nose, throat and airway.
Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged skin contact may cause redness and irritation. May cause skin sensitisation or allergic reactions in sensitive individuals.
Eye contact	Vapour or spray in the eyes may cause irritation and smarting.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	The product is not flammable.
Hazardous combustion products	Carbon monoxide (CO). Carbon dioxide (CO ₂).

5.3. Advice for firefighters

Protective actions during firefighting	No specific firefighting precautions known.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	For personal protection, see Section 8.
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6.2. Environmental precautions

Environmental precautions	Avoid discharge into drains or watercourses or onto the ground.
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6.3. Methods and material for containment and cleaning up

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Methods for cleaning up Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

Reference to other sections For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Good personal hygiene procedures should be implemented. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

CALCIUM CARBONATE

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ Inhal. Dust 4 mg/m³ Resp. Dust

TITANIUM DIOXIDE

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust

Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

ETHANEDIOL

Long-term exposure limit (8-hour TWA): WEL 20 ppm 52 mg/m³ vapour

Short-term exposure limit (15-minute): WEL 40 ppm 104 mg/m³ vapour

Sk

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

DIPROPYLENE GLYCOL DIBENZOATE (CAS: 27138-31-4)

DNEL

Workers - Inhalation; Long term systemic effects: 5.8 mg/m³

Workers - Inhalation; Short term systemic effects: 38.08 mg/m³

Workers - Dermal; Long term systemic effects: 1.7 mg/kg/day

Workers - Dermal; Short term systemic effects: 160 mg/kg/day

PNEC

- Fresh water; 2.9 µg/l

- marine water; 0.29 µg/l

- Sediment (Freshwater); 0.474 mg/kg

- Sediment (Marinewater); 0.0474 mg/kg

- Soil; 1 mg/kg

- STP; 10 mg/l

TITANIUM DIOXIDE (CAS: 13463-67-7)

DNEL

Industry - Inhalation; Long term local effects: 10 mg/m³

Consumer - Oral; Long term systemic effects: 700 mg/kg/day

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PNEC

- Fresh water; 0.127 mg/l
- Sediment (Freshwater); ≥ 1000 mg/kg
- marine water; 1 mg/l
- Sediment (Marinewater); ≥ 100 mg/kg
- Soil; 100 mg/kg
- STP; 100 mg/l

ETHANEDIOL (CAS: 107-21-1)

DNEL

Workers - Inhalation; Long term local effects: 35 mg/m³
Workers - Dermal; Long term systemic effects: 106 mg/kg

PNEC

- Fresh water; 10 mg/l
- marine water; 1 mg/l
- Intermittent release; 10 mg/l
- STP; 199.5 mg/l
- Sediment (Freshwater); 37 mg/kg
- Soil; 1.53 mg/kg
- Sediment (Marinewater); 3,7 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

Hand protection

It is recommended that gloves are made of the following material: Butyl rubber. Neoprene. Nitrile rubber. Polyethylene. Polyvinyl chloride (PVC). The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.

Hygiene measures

Do not smoke in work area.

Respiratory protection

No specific recommendations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Paste.
Colour	Grey. White/off-white.
Odour	Acrylic
Odour threshold	Not determined.
pH	Not applicable.
Melting point	Not determined.
Initial boiling point and range	Not determined.

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Flash point	Technically not feasible.
Evaporation rate	Not applicable.
Evaporation factor	Not applicable.
Flammability (solid, gas)	No.
Upper/lower flammability or explosive limits	The product is not flammable.
Other flammability	Not available.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	1.48 @ 25°C
Bulk density	Not applicable.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	300 Pa s @ 25°C
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information	No data available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
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10.4. Conditions to avoid

Conditions to avoid	None known.
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10.5. Incompatible materials

Materials to avoid	Strong oxidising agents. Water, steam, water mixtures. Strong acids. Strong bases.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Oxides of carbon. Thermal decomposition may yield acrylic monomers.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

General information	This product has low toxicity. Only large quantities are likely to have adverse effects on human health.
Inhalation	Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature.
Ingestion	May cause discomfort if swallowed. Ingestion of significant amounts may result in severe systemic effects.
Skin contact	Unlikely to irritate on brief or occasional exposure. Prolonged contact may cause redness, irritation and dry skin.
Eye contact	May cause temporary eye irritation.
Acute and chronic health hazards	No specific health hazards known.
Medical symptoms	No specific symptoms noted, but this chemical may still have adverse health impact, either in general or on certain individuals.

Toxicological information on ingredients.

ALUMINIUM HYDROXIDE

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >2000 mg/kg, Oral, Rat

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 2.3

Species Rat

ATE inhalation (dusts/mists mg/l) 2.3

Skin corrosion/irritation

Animal data Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vivo This substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - development Information based on data obtained from similar substances. No indication of effects on fertility. No indication of effects on developmental toxicity.

FLAMEX ONE**DIPROPYLENE GLYCOL DIBENZOATE****Acute toxicity - oral**

Notes (oral LD₅₀) LD₅₀ 5072 mg/kg, Oral, Rat

TITANIUM DIOXIDE**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

Species Rat

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 6.82

Species Rat

ATE inhalation (dusts/mists mg/l) 6.82

OCTYLPHENOL, ETHOXYLATED**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ mg/kg) 2,000.0

Species Rat

ATE oral (mg/kg) 2,000.0

ETHANEDIOL**Acute toxicity - oral**

Notes (oral LD₅₀) LD₅₀ 7712 mg/kg, Oral, Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >3500 mg/kg, Dermal, Mouse

SECTION 12: Ecological information

Ecotoxicity The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Ecological information on ingredients.**ALUMINIUM HYDROXIDE**

Ecotoxicity Low acute toxicity to aquatic organisms.

12.1. Toxicity

Toxicity May cause long-term adverse effects in the aquatic environment.

Ecological information on ingredients.**DIPROPYLENE GLYCOL DIBENZOATE**

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Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 3.7 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 19.3 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC ₅₀ , 72 hours: 15 mg/l, Algae

TITANIUM DIOXIDE

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: >1000 mg/l mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >100 mg/l mg/l, Daphnia magna

OCTYLPHENOL, ETHOXYLATED

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 4 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 18 mg/l, Daphnia magna

ETHANEDIOL

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 72860 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >100 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.

DIPROPYLENE GLYCOL DIBENZOATE

Biodegradation	Water - Degradation 87%: 28 days
Biological oxygen demand	650 mg/g

12.3. Bioaccumulative potential

Bioaccumulative potential	Not expected to be bioaccumulative.
Partition coefficient	Not determined.

Ecological information on ingredients.

ALUMINIUM HYDROXIDE

Bioaccumulative potential	Not expected to be bioaccumulative.
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DIPROPYLENE GLYCOL DIBENZOATE

Partition coefficient	log Pow: 3.9
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TITANIUM DIOXIDE

Bioaccumulative potential The product is not bioaccumulating.

12.4. Mobility in soil

Mobility The product is insoluble in water. Not considered mobile.

Ecological information on ingredients.

ALUMINIUM HYDROXIDE

Mobility The product has poor water-solubility.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

ALUMINIUM HYDROXIDE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

OCTYLPHENOL, ETHOXYLATED

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

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14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

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

National regulations	The product of hydrolysis (methanol) is readily biodegradable. Silicone content is not biodegradable.
EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015.
Guidance	Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations.
Authorisations (Annex XIV Regulation 1907/2006)	No specific authorisations are known for this product.
Restrictions (Annex XVII Regulation 1907/2006)	No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information	For professional users only.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	23/08/2018
Revision	3a
Supersedes date	25/05/2015
SDS number	12130
Hazard statements in full	H302 Harmful if swallowed. H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.