



SAFETY DATA SHEET FLAMEX ONE

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name FLAMEX ONE
Product No. 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
 Tel. +44 (0) 1827 262222
 Fax. +44 (0) 1827 262444
 enquiryuk@fosroc.com

1.4. Emergency telephone number

+44 (0) 1827 265 279 (08.30 to 17.00hrs Mon - Thu; 08.30 to 16.00hrs Fri)

Manufacturer

Fosroc Limited, Coleshill Road, Tamworth, Staffordshire, ENGLAND.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) R52/53.

Human health

The hazardous properties of the product are considered limited. May cause minor irritation on skin contact.

Environment

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

Risk Phrases

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

S60 This material and its container must be disposed of as hazardous waste.

2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

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DIPROPYLENE GLYCOL DIBENZOATE		5-10%
CAS-No.: 27138-31-4	EC No.: 248-258-5	
Classification (EC 1272/2008) Aquatic Chronic 2 - H411	Classification (67/548/EEC) N;R51/53.	
ETHANEDIOL		< 1%
CAS-No.: 107-21-1	EC No.: 203-473-3	
Classification (EC 1272/2008) Acute Tox. 4 - H302	Classification (67/548/EEC) Xn;R22	

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

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

No recommendation given. General first aid, rest, warmth and fresh air.

Inhalation

Move the exposed person to fresh air at once.

Ingestion

No first aid should be needed.

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

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

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.

Eye contact

Spray and vapour in the eyes may cause irritation and smarting.

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

No specific first aid measures noted.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media

None known.

5.2. Special hazards arising from the substance or mixture

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Hazardous combustion products

High temperatures generate: Carbon monoxide (CO). Carbon dioxide (CO₂).

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific hazards

During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

No specific fire fighting procedure given. Use water to keep fire exposed containers cool and disperse vapours.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For personal protection, see section 8.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Observe good chemical hygiene practices. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

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

Storage Class

Chemical storage.

7.3. 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

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
ALUMINIUM HYDROXIDE	WEL	4 mg/m ³ Inhal. Dust				
CALCIUM CARBONATE	WEL	10 mg/m ³ Inhal. Dust	4 mg/m ³ Resp. Dust			
ETHANEDIOL	WEL	20 ppm	10 mg/m ³	40 ppm	104 mg/m ³	Sk
TITANIUM DIOXIDE	WEL		10 mg/m ³			

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

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TITANIUM DIOXIDE (CAS: 13463-67-7)

DNEL

Industry	Inhalation.	Long Term	Local Effects	10 mg/m ³
Consumer	Oral	Long Term	Systemic Effects	700 mg/kg/day

PNEC

Freshwater	>1	mg/l
Sediment (Freshwater)	>=1000	mg/kg
Marinewater	0.127	mg/l
Sediment (Marinewater)	>= 100	mg/kg
Soil	100	mg/kg
STP	100	mg/kg

ALUMINIUM HYDROXIDE (CAS: 21645-51-2)

DNEL

Consumer	Oral	Long Term	6.85	mg/kg/day
Industry	Inhalation.	Long Term	3	mg/m ³
Professional	Inhalation.	Long Term	3	mg/m ³

PNEC

STP	20	mg/l
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8.2. Exposure controls

Protective equipment



Engineering measures

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust.

Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

Hand protection

Gloves are recommended for prolonged use. Butyl rubber. Neoprene, nitrile, polyethylene or PVC.

Eye protection

Wear approved chemical safety goggles where eye exposure is reasonably probable.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

Skin protection

Wear apron or protective clothing in case of contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<u>Appearance</u>	Paste
<u>Colour</u>	Grey. White / off-white.
<u>Odour</u>	Acrylic
<u>Solubility</u>	Insoluble in water
<u>Initial boiling point and boiling range (°C)</u>	Not determined.
<u>Relative density</u>	1.48
<u>Vapour density (air=1)</u>	Not determined.
<u>Viscosity</u>	300 Pas 25°C
<u>Flash point (°C)</u>	Technically not feasible.

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Auto Ignition Temperature (°C)

Not determined.

Flammability Limit - Lower(%)

Technically not feasible.

Partition Coefficient

(N-Octanol/Water)

Not determined.

Other Flammability

Technical impossibility to obtain the data.

9.2. Other information

Not determined.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

Not relevant

Hazardous Polymerisation

Not relevant

10.4. Conditions to avoid

Temperatures below 5°C

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances. Water, steam, water mixtures. Strong acids. Strong bases

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Thermal decomposition may yield acrylic monomers.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

General information

This product has low toxicity. Only large volumes may have adverse impact on human health.

Inhalation

Unlikely to be hazardous by inhalation because of the low vapour pressure of the substance at ambient temperature.

Ingestion

May cause discomfort if swallowed.

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.

Health Warnings

No specific health warnings noted.

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Target Organs

Kidneys

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.

ETHANEDIOL (CAS: 107-21-1)

Acute toxicity:

Acute Toxicity (Oral LD50)

> 5000 mg/kg Rat

TITANIUM DIOXIDE (CAS: 13463-67-7)

Acute toxicity:

Acute Toxicity (Oral LD50)

> 5000 mg/kg Rat

Acute Toxicity (Inhalation LC50)

> 6.82 mg/l (dust/mist) Rat 4 hours

Skin Corrosion/Irritation:

Not irritating.

Respiratory or skin sensitisation:

Skin sensitisation

Local Lymph Node Assay (LLNA) Mouse

Not Sensitising.

Specific target organ toxicity - single exposure:

Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure:

Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard:

Based on available data the classification criteria are not met.

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

Acute toxicity:

Acute Toxicity (Oral LD50)

> 2500 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rabbit

Acute Toxicity (Inhalation LC50)

> 200 mg/l (vapours) Rat 4 hours

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ALUMINIUM HYDROXIDE (CAS: 21645-51-2)

Acute toxicity:

Acute Toxicity (Oral LD50)

> 2000 mg/kg Rat

Acute Toxicity (Inhalation LC50)

> 2.3 mg/l (dust/mist) Rat 4 hours

Skin Corrosion/Irritation:

Not irritating.

Serious eye damage/irritation:

Not Irritating.

Respiratory or skin sensitisation:

Not Sensitising.

Germ cell mutagenicity:

This substance has no evidence of mutagenic properties.

Carcinogenicity:

Carcinogenicity

No information available.

Reproductive Toxicity:

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

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 (CAS: 21645-51-2)

Ecotoxicity

Low acute toxicity to aquatic organisms.

12.1. Toxicity

Acute Fish Toxicity

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

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Ecological information on ingredients.

LC 50, 96 Hrs, Fish mg/l

>5000 mg/l

LC 50, 96 Hrs, Fish mg/l

>10000 mg/l

EC 50, 48 Hrs, Daphnia, mg/l

>100 mg/l

Acute Toxicity - Fish

LC50 96 hours 3.7 mg/l Pimephales promelas (Fat-head Minnow)

EC 50, 48 Hrs, Daphnia, mg/l

19.3

IC 50, 72 Hrs, Algae, mg/l

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ETHANEDIOL (CAS: 107-21-1)

TITANIUM DIOXIDE (CAS: 13463-67-7)

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

12.2. Persistence and degradability

Degradability

There are no data on the degradability of this product.

Ecological information on ingredients.

Degradability

No data available.

ETHANEDIOL (CAS: 107-21-1)

12.3. Bioaccumulative potential

Bioaccumulative potential

Not expected to be bioaccumulative

Partition coefficient

Not determined.

Ecological information on ingredients.

Bioaccumulative potential

The product is not bioaccumulating.

Bioaccumulative potential

Will not bio-accumulate.

Partition coefficient

3.9

Bioaccumulative potential

Not expected to be bioaccumulative

ETHANEDIOL (CAS: 107-21-1)

TITANIUM DIOXIDE (CAS: 13463-67-7)

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

ALUMINIUM HYDROXIDE (CAS: 21645-51-2)

12.4. Mobility in soil

Mobility:

The product is insoluble in water. Not considered mobile.

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Ecological information on ingredients.

ETHANEDIOL (CAS: 107-21-1)

Mobility:

The product is soluble in water.

ALUMINIUM HYDROXIDE (CAS: 21645-51-2)

Mobility:

The product has poor water-solubility.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

Ecological information on ingredients.

ALUMINIUM HYDROXIDE (CAS: 21645-51-2)

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

General

The product is not covered by international regulation 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)

Not applicable.

Transport Labels

No transport warning sign required.

14.4. Packing group

Not applicable.

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 MARPOL73/78 and the IBC Code

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Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations.

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40.

CHIP for everyone HSG(108).

EU Legislation

Dangerous Substance Directive 67/548/EEC.

Dangerous Preparations Directive 1999/45/EC.

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are noted for this product.

Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions of use are noted for this product.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date 7 October 2014

Revision 2

SDS No. 12130

Risk Phrases In Full

R22 Harmful if swallowed.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Statements In Full

H302 Harmful if swallowed.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Disclaimer

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.