

SAFETY DATA SHEET FLAMEX TWO GREY

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

1.1. Product identifier

Product name FLAMEX TWO GREY
Product No. 1497020UK9

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

Identified uses Flexible 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)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Carc. Cat. 3;R40. N;R50/53. R64, R66.

Human health

Contains a substance which may be potentially carcinogenic.

Environment

The product contains a substance which may cause long term adverse effects in the aquatic environment.

2.2. Label elements

Contains ANTIMONY TRIOXIDE

Labelling



Harmful



Dangerous for the environment

Risk Phrases

R40	Limited evidence of a carcinogenic effect.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R64	May cause harm to breastfed babies.
R66	Repeated exposure may cause skin dryness or cracking.

Safety Phrases

S36/37	Wear suitable protective clothing and gloves.
S57	Use appropriate containment to avoid environmental contamination.

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S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.
P14	Contains PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-POLYMER WITH 2,2'-(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENE OXYMETHYLENE)BIS(OXIRANE), THIRAM. May produce an allergic reaction.

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

CHLORINATED PARAFFIN (C14-17)	10-30%			
<table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">CAS-No.: 085535-85-9</td> <td style="width: 33%;">EC No.: 287-477-0</td> <td style="width: 33%; text-align: right;">Registration Number: 01-2119519269-33-xxxx</td> </tr> </table>	CAS-No.: 085535-85-9	EC No.: 287-477-0	Registration Number: 01-2119519269-33-xxxx	
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Classification (EC 1272/2008) EUH066 Lact. - H362 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) N;R50/53. R64,R66.			
LIQUID POLYSULFIDE POLYMER	10-30%			
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ALUMINIUM HYDROXIDE	10-30%			
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CALCIUM CARBONATE (STEARATE COATED)	5-10%			
<table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">CAS-No.: 471-34-1</td> <td style="width: 33%;">EC No.: 207-439-9</td> <td style="width: 33%;"></td> </tr> </table>	CAS-No.: 471-34-1	EC No.: 207-439-9		
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ANTIMONY TRIOXIDE	5-10%			
<table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">CAS-No.: 1309-64-4</td> <td style="width: 33%;">EC No.: 215-175-0</td> <td style="width: 33%;"></td> </tr> </table>	CAS-No.: 1309-64-4	EC No.: 215-175-0		
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Classification (EC 1272/2008) Carc. 2 - H351	Classification (67/548/EEC) Carc. Cat. 3;R40			

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TITANIUM DIOXIDE		1-5%
CAS-No.: 13463-67-7	EC No.: 236-675-5	Registration Number: 01-2119489379-17-0000
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.	
MONTMORILLONITE ORGANOCCLAY		1-5%
CAS-No.: 68953-58-2	EC No.: 273-219-4	
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.	
MANGANESE DIOXIDE		< 1%
CAS-No.: 1313-13-9	EC No.: 215-202-6	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H332	Classification (67/548/EEC) Xn;R20/22	
PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-POLYMER WITH 2,2'-(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENE OXYMETHYLENE)BIS(OXIRANE)		< 1%
CAS-No.: 25036-25-3	EC No.:	
Classification (EC 1272/2008) Eye Irrit. 2 - H319 Skin Sens. 1 - H317	Classification (67/548/EEC) Xi;R36,R38. R43.	
THIRAM		< 1%
CAS-No.: 137-26-8	EC No.: 205-286-2	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT RE 2 - H373 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) Xn;R20/22,R48/22 R43 Xi;R36/38 N;R50/53	
XYLENE		< 1%
CAS-No.: 1330-20-7	EC No.: 215-535-7	

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Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315	Classification (67/548/EEC) R10 Xn;R20/21 Xi;R38
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SODIUM HYDROXIDE	< 1%
CAS-No.: 1310-73-2	EC No.: 215-185-5
Classification (EC 1272/2008) Skin Corr. 1A - H314	Classification (67/548/EEC) C;R35

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

General first aid, rest, warmth and fresh air.

Inhalation

Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

Ingestion

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Remove victim immediately from source of exposure. Rinse mouth thoroughly. Get medical attention immediately! Provide rest, warmth and fresh air.

Skin contact

Remove affected person from source of contamination. Remove contaminated clothing. Get medical attention promptly if symptoms occur after washing. Wash the skin immediately with soap and water.

Eye contact

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

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

Skin contact

Prolonged skin contact may cause redness and irritation.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

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

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen chloride (HCl). Nitrous gases (NO_x). Sulphurous gases (SO_x).

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

5.3. Advice for firefighters

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Special Fire Fighting Procedures

No specific fire fighting procedure given.

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

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Prevent entry into drains, sewers and water courses.

6.3. Methods and material for containment and cleaning up

Collect with absorbent, non-combustible material into suitable containers.

6.4. Reference to other sections

For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product. Wash hands after handling.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container. Store out of direct sunlight.

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/m3 Inhal. Dust				
CALCIUM CARBONATE (STEARATE COATED)	WEL	10 mg/m3 Inhal. Dust	4 mg/m3 Resp. Dust			
MANGANESE DIOXIDE	WEL		0,5 mg/m3			
MONTMORILLONITE ORGANOCLAY	OES	10 mg/m3 Inhal. Dust	4 mg/m3 Resp. Dust			
SODIUM HYDROXIDE	WEL				2 mg/m3	
TITANIUM DIOXIDE	WEL		4 mg/m3			
XYLENE	WEL	50 ppm	220 mg/m3	100 ppm	441 mg/m3	Sk

WEL = Workplace Exposure Limit.
Sk = Can be absorbed through skin.

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3-GLYCIDYLOXYPROPYL-TRIMETHOXYSILANE (CAS: 2530-83-8)

DNEL

Professional	Dermal	Short Term	21	mg/kg/day
Professional	Inhalation.	Short Term	147	mg/m3
Professional	Dermal	Long Term	21	mg/kg/day
Professional	Inhalation.	Long Term	147	mg/m3

PNEC

Professional	Freshwater	1	mg/l
Professional	Marinewater	0.1	mg/l
Professional	Water	1	mg/l
Professional	Sediment	0.79	mg/kg
Professional	Soil	0.13	mg/kg

ALUMINIUM HYDROXIDE (CAS: 21645-51-2)

DNEL

Consumer	Oral	Long Term	6.85	mg/kg/day
Industry	Inhalation.	Long Term	3	mg/m3
Professional	Inhalation.	Long Term	3	mg/m3

PNEC

STP	20	mg/l
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MONTMORILLONITE ORGANOCCLAY (CAS: 68953-58-2)

Ingredient Comments

OES = Occupational Exposure Standard.

CHLORINATED PARAFFIN (C14-17) (CAS: 085535-85-9)

DNEL

Industry	Inhalation.	Long Term	Systemic Effects	1.6 mg/m3
Industry	Dermal	Long Term	Systemic Effects	47.9 mg/kg/day
Consumer	Oral	Long Term	Systemic Effects	0.58 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	2 mg/m3
Consumer	Dermal	Long Term	Systemic Effects	28.75 mg/kg/day

PNEC

Freshwater	1000	mg/l
Marinewater	200	mg/l
STP	80	mg/l

TITANIUM DIOXIDE (CAS: 13463-67-7)

DNEL

Industry	Inhalation.	Long Term	10	mg/m3
Consumer	Oral	Long Term	700	mg/kg/day

PNEC

Freshwater	>1	mg/l
Marinewater	0.127	mg/l
Soil	100	mg/kg
STP	100	mg/kg

8.2. Exposure controls

Protective equipment



Process conditions

Provide eyewash station.

Engineering measures

Provide adequate general and local exhaust ventilation.

Respiratory equipment

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

Hand protection

Use protective gloves. Nitrile gloves are recommended.

Eye protection

Wear tight-fitting goggles or face shield.

Other Protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

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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. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Skin protection

Wear apron or protective clothing in case of contact.

Environmental Exposure Controls

Refer to section 6 or 12.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<u>Appearance</u>	Semi-solid (multi-layer paste).
<u>Colour</u>	Grey.
<u>Odour</u>	Mercaptan odour.
<u>Solubility</u>	Insoluble in water
<u>Relative density</u>	1.65 20
<u>Flash point (°C)</u>	>100°C

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

Hazardous polymerisation will not occur.

10.3. Possibility of hazardous reactions

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

Temp > 50°C.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances. Strong acids.

10.6. Hazardous decomposition products

Fire or high temperatures create: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen chloride (HCl). Nitrous gases (NO_x). Sulphurous gases (SO_x).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Other Health Effects

Antimony oxide is classified as a category 3 carcinogen.

Inhalation

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

Ingestion

Harmful if swallowed. May cause nausea, vomiting and diarrhoea.

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Skin contact

Repeated exposure may cause skin dryness or cracking.

Eye contact

May cause temporary eye irritation.

Health Warnings

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

Route of entry

Ingestion. Skin and/or eye contact.

Target Organs

No specific target organs noted

Medical Symptoms

No specific symptoms noted.

Medical Considerations

No information about adverse effects due to exposure.

Toxicological information on ingredients.

CHLORINATED PARAFFIN (C14-17) (CAS: 085535-85-9)

Acute toxicity:

Acute Toxicity (Oral LD50)

> 2000 mg/kg Rat

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

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

12.1. Toxicity

Not ecotoxic to fish/daphnia/algae in cured state.

Acute Fish Toxicity

Toxic to aquatic organisms.

Ecological information on ingredients.

CHLORINATED PARAFFIN (C14-17) (CAS: 085535-85-9)

LC 50, 96 Hrs. Fish mg/l

>5000

EC 50, 48 Hrs. Daphnia, mg/l

0.006

12.2. Persistence and degradability

Degradability

This product is expected to be not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Ecological information on ingredients.

CHLORINATED PARAFFIN (C14-17) (CAS: 085535-85-9)

Bioaccumulation factor

BCF < 2000

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12.4. Mobility in soil

Mobility:

The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Not determined.

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

14.1. UN number

UN No. (ADR/RID/ADN) 3077

UN No. (IMDG) 3077

UN No. (ICAO) 3077

14.2. UN proper shipping name

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CHLORINATED PARAFFIN (C14-17))

14.3. Transport hazard class(es)

ADR/RID/ADN Class 9

ADR/RID/ADN Class Class 9: Miscellaneous dangerous substances and articles.

ADR Label No. 9

IMDG Class 9

ICAO Class/Division 9

Transport Labels



14.4. Packing group

ADR/RID/ADN Packing group III

IMDG Packing group III

ICAO Packing group III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

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14.6. Special precautions for user

<u>EMS</u>	F-A, S-F
<u>Emergency Action Code</u>	2Z
<u>Hazard No. (ADR)</u>	90
<u>Tunnel Restriction Code</u>	(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Safety Data Sheets for Substances and Preparations.

Guidance Notes

Workplace Exposure Limits EH40.

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

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.

<u>Revision Date</u>	12 December 2014
<u>Revision</u>	4

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Risk Phrases In Full

R35	Causes severe burns.
R10	Flammable.
R20/22	Harmful by inhalation and if swallowed.
R20/21	Harmful by inhalation and in contact with skin.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R36/38	Irritating to eyes and skin.
R36	Irritating to eyes.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R64	May cause harm to breastfed babies.
R43	May cause sensitisation by skin contact.
NC	Not classified.
R66	Repeated exposure may cause skin dryness or cracking.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Statements In Full

EUH066	Repeated exposure may cause skin dryness or cracking.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs <<Organs>> through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic 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.