

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: UK REACH Regulations (SI 2019/758 as amended)

Revision date 06/30/2023 Revision Number 1

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

1.1. Product identifier

Safety data sheet number 00131

Product Name FLAMEX MS320

Pure substance/mixture Mixture

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

Recommended use Fire rated joint sealant

Uses advised against Consumer use

1.3. Details of the supplier of the safety data sheet

Supplier

Fosroc International Limited Drayton Manor Business Park Coleshill Road Tamworth Staffordshire B78 3XN England Tel. +44 (0) 1827 262222

Tel. +44 (0) 1827 262222 Fax. +44 (0) 1827 262444

For further information, please contact

E-mail address enquiryuk@fosroc.com

1.4. Emergency telephone number

Emergency Telephone +44 (0) 1827 265 279 (Monday to Sunday, 24 hours a day)

## **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

Chronic aquatic toxicity Category 2 - (H411)

2.2. Label elements



#### **Hazard statements**

H411 - Toxic to aquatic life with long lasting effects

## **Precautionary statements**

P273 - Avoid release to the environment

P391 - Collect spillage

P501 - Dispose of contents/ container to an approved waste disposal plant

## 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB according to applicable EU criteria. Causes mild skin irritation.

# **SECTION 3: Composition/information on ingredients**

## 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
CALCIUM CARBONATE (STEARATE COATED) 471-34-1	25 - <50%	207-439-9	-	-	-	-	-
DI-ISO-DECYL PHTHALATE 68515-49-1	10 - <25%	271-091-4	-	-	-	1	-
HYDROCARBONS, C9, aromatics 64742-95-6	1 - <2.5%	918-668-5	-	Asp. Tox. 1 (H304) STOT SE 3 (H335, H336) Chr. aquatic 2 (H411) Flam. liquid 3 (H226)	-	-	-
Trimethoxy(2-methyl propyl)silane 18395-30-7	1 - <2.5%	242-272-5	-	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) STOT SE 3 (H335)	-	-	-
Dioctyltin Oxide 870-08-6	0.025 - <0.25%	212-791-1	-	Aquatic Chronic 3 (H412) Repr. 2 (H361fd) STOT RE 2 (H373)	-	-	-

### Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59)

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

**Inhalation** Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact**Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

**Ingestion** Rinse mouth.

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

**Symptoms** Prolonged contact may cause redness and irritation.

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

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

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

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

#### 5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

No information available.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances:.

Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

## SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections**See section 8 for more information. See section 13 for more information.

# SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

#### 7.3. Specific end use(s)

#### Specific use(s)

The identified uses for this product are detailed in Section 1.2.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

## **Exposure Limits**

Chemical name	United Kingdom
CALCIUM CARBONATE (STEARATE COATED)	TWA: 10 mg/m <sup>3</sup>
471-34-1	TWA: 4 mg/m <sup>3</sup>
	STEL: 30 mg/m <sup>3</sup>
	STEL: 12 mg/m <sup>3</sup>
Dioctyltin Oxide	TWA: 0.1 mg/m <sup>3</sup>
870-08-6	STEL: 0.2 mg/m <sup>3</sup>
	Sk*

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

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## Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
CALCIUM CARBONATE (STEARATE COATED) 471-34-1			6.36 mg/m³ [5] [6]
DI-ISO-DECYL PHTHALATE 68515-49-1		41.67 mg/kg bw/day [4] [6]	5.29 mg/m <sup>3</sup> [4] [6]
HYDROCARBONS, C9, aromatics 64742-95-6			1286.4 mg/m³ [4] [7] 837.5 mg/m³ [5] [6] 1066.67 mg/m³ [5] [7]

[4] [5] [6] [7] Systemic health effects. Local health effects. Long term.

Short term.

## Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
CALCIUM CARBONATE (STEARATE COATED) 471-34-1	6.1 mg/kg bw/day [4] [6] 6.1 mg/kg bw/day [4] [7]		1.06 mg/m³ [5] [6]
DI-ISO-DECYL PHTHALATE 68515-49-1	0.75 mg/kg bw/day [4] [6]		1.3 mg/m³ [4] [6]
HYDROCARBONS, C9, aromatics 64742-95-6			1152 mg/m³ [4] [7] 178.57 mg/m³ [5] [6] 640 mg/m³ [5] [7]
Dioctyltin Oxide 870-08-6	2 μg/kg bw/day [4] [6]		

[4] [5] [6] [7] Systemic health effects. Local health effects. Long term.

Short term.

## **Predicted No Effect Concentration (PNEC)**

Chemical name	Freshwater	Freshwater	Marine water	Marine water	Air
		(intermittent release)		(intermittent release)	
Trimethoxy(2-methylpropyl	0.82 mg/L	8.2 mg/L	0.082 mg/L		
)silane					
18395-30-7					

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
CALCIUM CARBONATE (STEARATE COATED) 471-34-1			100 mg/L		
Trimethoxy(2-methylpropyl )silane	3.2 mg/kg sediment dw	0.32 mg/kg sediment dw	100 mg/L	0.16 mg/kg soil dw	

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
18395-30-7					

#### 8.2. Exposure controls

No information available. **Engineering controls** 

Personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection

Hand protection To protect hands from chemicals, gloves must comply with European standard EN374.

Barrier cream applied prior to exposure to material facilitates subsequent skin cleansing, but does not prevent skin penetration. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about thebreakthrough

time of the glove material. Wear suitable gloves.

Gloves						
Duration of contact	PPE - Glove material	Glove thickness	Break through time			
Long term (repeated)	Nitrile rubber	0.4 mm				

Skin and body protection Wear suitable protective clothing.

Respiratory protection is usually not required. Use appropriate protection if exposure limits Respiratory protection

are exceeded.

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid **Appearance** Paste

Various colours Color

Slight. Odor

Not determined **Odor threshold** 

Remarks • Method Property Values

Melting point / freezing point No data available Not determined Initial boiling point and boiling rangeNo data available Not applicable Not determined **Flammability** Flammability Limit in Air Not determined

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point > 100 °C CC (closed cup) **Autoignition temperature** No data available Not determined

**Decomposition temperature** Not applicable Not applicable No data available pН pH (as aqueous solution) No data available None known Not determined Kinematic viscosity Not determined. Dynamic viscosity Insoluble in water None known

Water solubility Solubility(ies) Immiscible in water None known

Partition coefficientNot applicableVapor pressure< 0.001kPa</th>@ 20 °CRelative density1.42@ 20 °C

**Bulk density** 

Not determined

Relative vapor density No data available

**Particle characteristics** 

Not determined Particle Size No information available.
Particle Size No information available.
No information available.

Distribution

**Explosive properties** Not considered to be explosive.

Oxidizing properties The mixture itself has not been tested but none of the ingredient substances meet the

criteria for classification as oxidising.

9.2. Other information No information available.

# SECTION 10: Stability and reactivity

10.1. Reactivity

**Reactivity**There is no known hazardous reactivity associated with the product when used as

recommended.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization None under normal processing.

10.4. Conditions to avoid

**Conditions to avoid**Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

**Incompatible materials**None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances:..

Carbon oxides. Nitrogen oxides (NOx).

## SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

**Product Information** 

**Inhalation** Based on available data, the classification criteria are not met.

Eye contact Based on available data, the classification criteria are not met.

**Skin contact** Specific test data for the substance or mixture is not available. Causes mild skin irritation.

**Ingestion** Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Prolonged contact may cause redness and irritation.

Acute toxicity

**Numerical measures of toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 19,327.50 mg/kg

 ATEmix (dermal)
 70,829.10 mg/kg

 ATEmix (inhalation-gas)
 257,142.90 ppm

 ATEmix (inhalation-dust/mist)
 85.70 mg/l

 ATEmix (inhalation-vapor)
 628.60 mg/l

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
CALCIUM CARBONATE (STEARATE COATED)	= 6450 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 3 mg/L (Rat) 4 h
DI-ISO-DECYL PHTHALATE	> 60000 mg/kg (Rat)	= 16000 mg/kg (Rabbit)	> 0.13 mg/L (Rat)6 h
HYDROCARBONS, C9, aromatics	= 8400 mg/kg (Rat)	> 2000 mg/kg ( Rabbit )	= 3400 ppm (Rat) 4 h
Trimethoxy(2-methylpropyl)silan	-	-	> 1525 ppm (Rat) 4 h
е			
Dioctyltin Oxide	-	> 2000 mg/kg (Rat)	-

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes mild skin irritation.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**Based on available data, the classification criteria are not met.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

Chemical name	United Kingdom
HYDROCARBONS, C9, aromatics	Muta. 1B

Carcinogenicity Based on available data, the classification criteria are not met.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	United Kingdom	
HYDROCARBONS, C9, aromatics	Carc. 1B	

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.

Other adverse effects No information available.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
DI-ISO-DECYL PHTHALATE	EC50: >1.3mg/L (96h, Pseudokirchneriella subcapitata)	LC50: >0.66mg/L (96h, Pimephales promelas) LC50: >1mg/L (96h, Pimephales promelas) LC50: >1mg/L (96h, Oncorhynchus mykiss) LC50: >0.62mg/L (96h, Oncorhynchus mykiss) LC50: >0.55mg/L (96h, Lepomis macrochirus)	•	EC50: >0.18mg/L (48h, Daphnia magna)
HYDROCARBONS, C9, aromatics	-	LC50: =9.22mg/L (96h, Oncorhynchus mykiss)	-	EC50: =6.14mg/L (48h, Daphnia magna)
Dioctyltin Oxide	-	LC50: >0.09mg/L (96h, Danio rerio)	-	-

## 12.2. Persistence and degradability

**Persistence and degradability** The product is not expected to be biodegradable.

## 12.3. Bioaccumulative potential

Bioaccumulation Not determined.

Chemical name	Partition coefficient
DI-ISO-DECYL PHTHALATE	8.8

## 12.4. Mobility in soil

**Mobility in soil** Insoluble in water. Not considered mobile.

## 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment	
CALCIUM CARBONATE (STEARATE COATED)	The substance is not PBT / vPvB PBT assessment de	
	not apply	
DI-ISO-DECYL PHTHALATE	The substance is not PBT / vPvB	

HYDROCARBONS, C9, aromatics	The substance is not PBT / vPvB
Trimethoxy(2-methylpropyl)silane	The substance is not PBT / vPvB
Dioctyltin Oxide	The substance is not PBT / vPvB

#### 12.6. Other adverse effects

Other adverse effects None known.

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste from residues/unused products

Note that fully cured material is not considered as hazardous waste. Do not empty into drains, sewers or water courses. Dispose of waste to a licensed landfill in accordance with

the requirements of the local Waste Disposal Authority.

Contaminated packaging Do not reuse empty containers.

# **SECTION 14: Transport information**

# IATA ....

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	<b>Environmental hazards</b>	Not applicable

14.6 Special precautions for user

Special Provisions None

#### <u>IMDG</u>

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable

14.6 Special precautions for user

Special Provisions None

**14.7** Maritime transport in bulk No information available.

according to IMO instruments

### <u>RID</u>

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable

14.6 Special precautions for user

Special Provisions None

## <u>ADR</u>

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable

# 14.6 Special precautions for user

Special Provisions None

# **SECTION 15: Regulatory information**

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

#### Authorizations and/or restrictions on use:

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

The product contains one of more capaciantees and jost to receive in the product of the product			
Chemical name	Restricted substance per REACH	Substance subject to authorization per	
	Annex XVII	REACH Annex XIV	
DI-ISO-DECYL PHTHALATE - 68515-49-1	Use restricted. See item 52[b].	-	
HYDROCARBONS, C9, aromatics - 64742-95-6	Use restricted. See item 28.	-	
	Use restricted. See item 29.		
	Restricted Carcinogen 1B		
	Restricted Mutagen 1B		
Dioctyltin Oxide - 870-08-6	Use restricted. See item 20.	-	

#### **Persistent Organic Pollutants**

Not applicable

## **Export Notification requirements**

This product contains one or more substances pursuant to GB Prior Informed Consent (PIC) Regulations (as amended)

Chemical name	Export Notification requirements
Dioctyltin Oxide - 870-08-6	l.1

#### Dangerous substance category per COMAH Regulations 2015 (as amended)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

#### Named dangerous substances per COMAH Regulations 2015 (as amended)

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
HYDROCARBONS, C9, aromatics - 64742-95-6	-	25000

## The Ozone-Depleting Substances Regulations 2015

Not applicable

## The Biocidal Products Regulations 2001 (as amended)

Not applicable

## The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)

Not applicable

## Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)

Not applicable

#### 15.2. Chemical safety assessment

Chemical Safety Report No chemical safety assessment has been carried out for this product.

## **SECTION 16: Other information**

Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H226 - Flammable liquid and vapor

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

H412 - Harmful to aquatic life with long lasting effects

#### Legend

SVHC: Substances of Very High Concern for Authorization:

#### Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

+ Sensitizers

#### Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)

European Chemicals Agency (ECHA) (ECHA API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 06/30/2023

**Reason for revision** This is the first issue.

**Restrictions on use** For professional use only

This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended)
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical
agents at work

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

**End of Safety Data Sheet**