



SAFETY DATA SHEET NITOFLOL FC130 BASE

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

1.1. Product identifier

Product name NITOFLOL FC130 BASE

Product number A1837691UK9

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

Identified uses Base component of two-part epoxy floor coating.

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 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 2 - H411

Human health May cause skin sensitisation or allergic reactions in sensitive individuals.

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 pictograms



Signal word Warning

NITOFLOR FC130 BASE

| | |
|---|--|
| Hazard statements | <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H319 Causes serious eye irritation.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p> |
| Precautionary statements | <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p> |
| Contains | EPOXY RESIN (Type A) (Number average MW ≤ 700), EPOXY RESIN (Type F) (Number average MW ≤ 700), 2-ETHYL HEXYL GLYCIDYL ETHER |
| Supplementary precautionary statements | <p>P261 Avoid breathing vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P273 Avoid release to the environment.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P391 Collect spillage.</p> |

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| | | | |
|---|----------------------|--|---------|
| EPOXY RESIN | | | 60-100% |
| CAS number: 25068-38-6 | EC number: 500-033-5 | REACH registration number: 01-2119456619-26-XXXX | |
| Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411 | | | |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | | | 10-30% |
| CAS number: 9003-36-5 | EC number: 500-006-8 | | |
| Classification Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411 | | | |

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| | | |
|--|----------------------|--------|
| 2-ETHYL HEXYL GLYCIDYL ETHER | | 10-30% |
| CAS number: 2461-15-6 | EC number: 219-553-6 | |
| Classification Skin Irrit. 2 - H315 Skin Sens. 1 - H317 | | |

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 | Get medical attention if any discomfort continues. |
| Inhalation | Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues. |
| Ingestion | Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under observation. 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. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. |
| Eye contact | Remove affected person from source of contamination. 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 and get medical attention. |

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

| | |
|----------------------------|---|
| General information | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| Inhalation | May cause respiratory system irritation. |
| Ingestion | May cause discomfort if swallowed. |
| Skin contact | Skin irritation. May cause sensitisation or allergic reactions in sensitive individuals. |
| Eye contact | Irritation of eyes and mucous membranes. |

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

| | |
|-----------------------------|------------------------|
| Notes for the doctor | Treat symptomatically. |
|-----------------------------|------------------------|

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 | No unusual fire or explosion hazards noted. |
| Hazardous combustion products | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. |

5.3. Advice for firefighters

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| | |
|--|--|
| Protective actions during firefighting | No specific firefighting precautions known. Control run-off water by containing and keeping it out of sewers and watercourses. |
| 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 | Wear protective clothing as described in Section 8 of this safety data sheet. |
|-----------------------------|---|

6.2. Environmental precautions

| | |
|----------------------------------|---|
| Environmental precautions | Avoid discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. |
|----------------------------------|---|

6.3. Methods and material for containment and cleaning up

| | |
|--------------------------------|---|
| Methods for cleaning up | Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. |
|--------------------------------|---|

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 | For professional users only. Provide adequate ventilation. Avoid the formation of mists. Avoid inhalation of vapours/spray and 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. Keep only in the original container. |
|----------------------------|--|

| | |
|----------------------|-------------------|
| 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

| | |
|----------------------------|---------------------------------|
| Ingredient comments | WEL = Workplace Exposure Limits |
|----------------------------|---------------------------------|

EPOXY RESIN (CAS: 25068-38-6)

| | |
|-------------|---|
| DNEL | Workers - Inhalation; Short term systemic effects: 12.25 mg/m ³ Workers - Inhalation; Long term systemic effects: 12.25 mg/m ³ |
| PNEC | - Fresh water; 0.006 mg/l |

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (CAS: 9003-36-5)

| | |
|-------------|---|
| DNEL | Workers - Inhalation; Long term systemic effects: 29.39 mg/m ³ Workers - Dermal; Long term systemic effects: 104.15 mg/kg/day Workers - Dermal; Short term local effects: 8.3 µg/cm ² |
|-------------|---|

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PNEC

- Fresh water; 0.003 mg/l
- marine water; 0.0003 mg/l
- STP; 10 mg/l

2-ETHYL HEXYL GLYCIDYL ETHER (CAS: 2461-15-6)

DNEL

Workers - Dermal; Long term : 4.17 mg/kg/day
Workers - Dermal; Short term : 1 mg/kg/day

PNEC

- Fresh water; 0.002 mg/l
- marine water; 0.166 µg/l
- Sediment (Freshwater); 0.177 mg/kg dw
- Sediment (Marinewater); 0.018 mg/kg dw
- STP; 0.017 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. 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 or face shield.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Wear protective gloves made of the following material: Butyl rubber. Nitrile rubber. The most suitable glove should be chosen in consultation with the glove supplier/manufacture, 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

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Do not eat, drink or smoke when using this product. Do not smoke in work area.

Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs. Organic vapour filter.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|-----------------|
| Appearance | Clear liquid. |
| Colour | Colourless. |
| Odour | Mild. |
| Odour threshold | Not determined. |
| pH | Not determined. |
| Melting point | Not determined. |

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| | |
|---|---|
| Initial boiling point and range | >200°C @ 1 atm |
| Flash point | > 200°C |
| Evaporation rate | Not determined. |
| Evaporation factor | Not determined. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | Not determined. |
| Other flammability | Not applicable. |
| Vapour pressure | 0.001 kPa @ 20°C |
| Vapour density | Not determined. |
| Relative density | 1.12 @ 20°C |
| Bulk density | Not applicable. |
| Solubility(ies) | Miscible with water. |
| Partition coefficient | Not applicable. |
| Auto-ignition temperature | Not determined. |
| Decomposition Temperature | Not determined. |
| Viscosity | Not determined. |
| 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 | Not available. |
|--------------------------|----------------|

SECTION 10: Stability and reactivity

10.1. Reactivity

| | |
|-------------------|---|
| Reactivity | The reactivity data for this product will be typical of those for the following class of materials: Epoxides. |
|-------------------|---|

10.2. Chemical stability

| | |
|------------------|--|
| Stability | Stable at normal ambient temperatures. |
|------------------|--|

10.3. Possibility of hazardous reactions

| | |
|---|--|
| Possibility of hazardous reactions | Under normal conditions of storage and use, no hazardous reactions will occur. |
|---|--|

10.4. Conditions to avoid

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

10.5. Incompatible materials

| | |
|---------------------------|--|
| Materials to avoid | No specific material or group of materials is likely to react with the product to produce a hazardous situation. |
|---------------------------|--|

10.6. Hazardous decomposition products

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Hazardous decomposition products When heated, vapours/gases hazardous to health may be formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation Gas or vapour may irritate the respiratory system.

Ingestion May cause discomfort if swallowed.

Skin contact Irritating to skin. May cause sensitisation by skin contact.

Eye contact Irritating to eyes.

Route of exposure Skin and/or eye contact

Toxicological information on ingredients.

EPOXY RESIN

Acute toxicity - oral

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

Species Rat

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 20,000.0

Species Rabbit

ATE dermal (mg/kg) 20,000.0

Skin corrosion/irritation

Animal data Rabbit Moderately irritating.

Skin sensitisation

Skin sensitisation May cause sensitisation by skin contact.

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >5000 mg/kg, Oral, Rat

2-ETHYL HEXYL GLYCIDYL ETHER

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rat

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ (7 hr) 0.15 mg/l, Inhalation, Rat

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SECTION 12: Ecological information

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

12.1. Toxicity

Toxicity The product contains a substance which is harmful to aquatic organisms.

Ecological information on ingredients.

EPOXY RESIN

Acute aquatic toxicity

| | |
|---|---|
| Acute toxicity - fish | LC ₅₀ , 96 hours: 3.6 mg/l, Leuciscus idus (Golden orfe) LC ₅₀ , 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout) |
| Acute toxicity - aquatic invertebrates | EC ₅₀ , 48 hours: 1.8 mg/l, Daphnia magna |
| Acute toxicity - aquatic plants | EC ₅₀ , 72 hours: 11 mg/l, Scenedesmus capricornutum (fresh water algae) |

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Acute aquatic toxicity

| | |
|---|--|
| Acute toxicity - fish | LC ₅₀ , 96 hours: >1000 mg/l, Oncorhynchus mykiss (Rainbow trout) |
| Acute toxicity - aquatic invertebrates | EC ₅₀ , 48 hours: >1000 mg/l, Daphnia magna |

2-ETHYL HEXYL GLYCIDYL ETHER

Acute aquatic toxicity

| | |
|---|---|
| Acute toxicity - fish | LC ₅₀ , 96 hours: 5000 mg/l, Oncorhynchus mykiss (Rainbow trout) |
| Acute toxicity - aquatic invertebrates | EC ₅₀ , : 7.2 mg/l, Freshwater invertebrates |
| Acute toxicity - aquatic plants | NOEC, 72 hours: 500 mg/l, Freshwater algae |

12.2. Persistence and degradability

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

Ecological information on ingredients.

EPOXY RESIN

| | |
|--------------------------------------|---|
| Persistence and degradability | The product is not readily biodegradable. |
|--------------------------------------|---|

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not applicable.

Ecological information on ingredients.

EPOXY RESIN

NITOFLOR FC130 BASE

Partition coefficient log Pow: 3.242

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Partition coefficient : log Pow = Approximately 3.8 at 25 C

2-ETHYL HEXYL GLYCIDYL ETHER

Partition coefficient : 3.83

12.4. Mobility in soil

Mobility Not applicable.

Ecological information on ingredients.

EPOXY RESIN

Mobility The product has poor water-solubility.

Adsorption/desorption coefficient Water - Koc: 445 @ °C

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.

EPOXY RESIN

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

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste.

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

14.1. UN number

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN No. (ADN) 3082

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Types A and F) (Number average MW <= 700))

NITOFLOR FC130 BASE

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Types A and F) (Number average MW <= 700))

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Types A and F) (Number average MW <= 700))

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Types A and F) (Number average MW <= 700))

14.3. Transport hazard class(es)

| | |
|-----------------------------|----|
| ADR/RID class | 9 |
| ADR/RID classification code | M6 |
| ADR/RID label | 9 |
| IMDG class | 9 |
| ICAO class/division | 9 |
| ADN class | 9 |

Transport labels



14.4. Packing group

| | |
|-----------------------|-----|
| ADR/RID packing group | III |
| IMDG packing group | III |
| ICAO packing group | III |
| ADN packing group | III |

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

| | |
|--|----------|
| EmS | F-A, S-F |
| ADR transport category | 3 |
| Emergency Action Code | •3Z |
| Hazard Identification Number (ADR/RID) | 90 |
| Tunnel restriction code | (E) |

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

NITOFLOR FC130 BASE

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

| | |
|-----------------------------|--|
| National regulations | The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). |
| EU legislation | 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). 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). Commission Regulation (EU) No 2015/830 of 28 May 2015. |
| Guidance | Workplace Exposure Limits EH40. Respiratory protective equipment at work (HSG53). |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

| | |
|----------------------------------|---|
| General information | The user must be instructed in the proper work procedure and be familiar with the contents of these instructions. |
| Revision comments | NOTE: Lines within the margin indicate significant changes from the previous revision. |
| Revision date | 30/08/2019 |
| Revision | 4b |
| Supersedes date | 25/05/2017 |
| SDS number | 21562 |
| Hazard statements in full | H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects. |

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.



SAFETY DATA SHEET

NITOFLOF FC130 Hardener

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

1.1. Product identifier

Product name NITOFLOF FC130 Hardener
Product number A1837102UK9, A1837162UK9, A1837802UK9

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

Identified uses Hardener component of two part epoxy system

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 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317
Environmental hazards Aquatic Chronic 3 - H412

Human health Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. The product contains a small amount of sensitising substance. May cause skin sensitisation or allergic reactions in sensitive individuals.

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

2.2. Label elements

Hazard pictograms



Signal word Warning

NITOFLOR FC130 Hardener

| | |
|---|---|
| Hazard statements | <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H319 Causes serious eye irritation.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p> |
| Precautionary statements | <p>P261 Avoid breathing vapour/ spray.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p> |
| Contains | PENTAETHYLENEHEXAMINE |
| Supplementary precautionary statements | <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> |

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| | |
|-------------------------|--|
| BARIUM SULPHATE | 10-30% |
| CAS number: 7727-43-7 | EC number: 231-784-4 |
| Classification | Classification (67/548/EEC or 1999/45/EC) |
| Not Classified | - |
| SILICA FUME | 1-5% |
| CAS number: 112945-52-5 | EC number: 601-216-3 |
| Classification | |
| Not Classified | |

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| | | | |
|--------------------------|------------------------|--|------|
| PENTAETHYLENEHEXAMINE | | | 1-5% |
| CAS number: 4067-16-7 | EC number: 223-775-9 | REACH registration number: 01-2119485826-22-0000 | |
| M factor (Acute) = 1 | M factor (Chronic) = 1 | | |
| Classification | | | |
| Acute Tox. 4 - H302 | | | |
| Acute Tox. 4 - H312 | | | |
| Skin Corr. 1B - H314 | | | |
| Eye Dam. 1 - H318 | | | |
| Skin Sens. 1 - H317 | | | |
| Aquatic Acute 1 - H400 | | | |
| Aquatic Chronic 1 - H410 | | | |

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

| | |
|---------------------|--|
| Inhalation | Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. |
| Ingestion | Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention immediately. |
| Skin contact | Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur 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 immediately. |

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

| | |
|----------------------------|---|
| General information | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| Inhalation | Gas or vapour in high concentrations may irritate the respiratory system. Coughing, chest tightness, feeling of chest pressure. |
| Ingestion | May cause discomfort if swallowed. |
| Skin contact | May cause sensitisation by skin contact. May cause irritation. |
| Eye contact | Irritating to eyes. |

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

| | |
|-----------------------------|------------------------|
| Notes for the doctor | Treat symptomatically. |
|-----------------------------|------------------------|

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

NITOFLOR FC130 Hardener

| | |
|--|---|
| Hazardous combustion products | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. |
| 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 | Provide adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. |
|-----------------------------|---|

6.2. Environmental precautions

| | |
|----------------------------------|--|
| Environmental precautions | Avoid or minimise the creation of any environmental contamination. |
|----------------------------------|--|

6.3. Methods and material for containment and cleaning up

| | |
|--------------------------------|---|
| Methods for cleaning up | Do not touch or walk into spilled material. Stop leak if safe to do so. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. |
|--------------------------------|---|

6.4. Reference to other sections

| | |
|------------------------------------|---|
| Reference to other sections | For personal protection, see Section 8. For waste disposal, see section 13. |
|------------------------------------|---|

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|--------------------------|---|
| Usage precautions | Provide adequate ventilation. Avoid inhalation of vapours/spray and 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. Keep only in the original container. |
| 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

BARIUM SULPHATE

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

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

SILICA FUME

Long-term exposure limit (8-hour TWA): ACGIH/TLV:0.1 mg/m³ res

TLV - Threshold Limit Value 2.4 mg/m³ Resp. Dust

WEL = Workplace Exposure Limit

| | |
|----------------------------|---------------------------------|
| Ingredient comments | WEL = Workplace Exposure Limits |
|----------------------------|---------------------------------|

NITOFLOR FC130 Hardener

PENTAETHYLENEHEXAMINE (CAS: 4067-16-7)

DNEL

Industry - Inhalation; Short term systemic effects: 8550 mg/m³
 Industry - Inhalation; Long term systemic effects: 1.59 mg/m³
 Industry - Dermal; Long term systemic effects: 0.4 mg/kg/day
 Industry - Dermal; Long term local effects: 0.044 mg/cm²
 Industry - Dermal; Long term systemic effects: 0.91 mg/kg/day

PNEC

- Fresh water, marine water; 0.0025 mg/l
 - STP; 0.025 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. 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. Wear tight-fitting, chemical splash goggles or face shield.

Hand protection

To protect hands from chemicals, gloves should comply with European Standard EN374. 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. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. It is recommended that gloves are made of the following material: Nitrile rubber.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Provide eyewash station and safety shower. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs. Organic vapour filter.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---------------------------------|------------------|
| Appearance | Liquid. |
| Colour | Various colours. |
| Odour | Amine. |
| Odour threshold | Not determined. |
| pH | Not determined. |
| Melting point | Not determined. |
| Initial boiling point and range | >100°C @ 1 atm |
| Flash point | >110°C |

NITOFLOR FC130 Hardener

| | |
|--|---|
| Evaporation rate | Not determined. |
| Evaporation factor | Not determined. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | Not applicable. |
| Other flammability | Not determined. |
| Vapour pressure | 1 kPa @ 20°C |
| Vapour density | Not determined. |
| Relative density | 1.25 @ at 20°C |
| Bulk density | Not applicable. |
| Solubility(ies) | Miscible with water. |
| Auto-ignition temperature | Not determined. |
| Decomposition Temperature | Not determined. |
| Viscosity | Not determined. |
| 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

| | |
|---------------------------|---|
| Volatile organic compound | This product contains a maximum VOC content of 3 g/litre. |
|---------------------------|---|

SECTION 10: Stability and reactivity

10.1. Reactivity

| | |
|------------|---|
| Reactivity | There are no known reactivity hazards associated with this product. |
|------------|---|

10.2. Chemical stability

| | |
|-----------|--|
| Stability | Stable at normal ambient temperatures. |
|-----------|--|

10.3. Possibility of hazardous reactions

| | |
|------------------------------------|--|
| Possibility of hazardous reactions | Hazardous reactions will not occur under normal transport or storage conditions. |
|------------------------------------|--|

10.4. Conditions to avoid

| | |
|---------------------|--|
| Conditions to avoid | Avoid excessive heat for prolonged periods of time. Temperatures below 5°C |
|---------------------|--|

10.5. Incompatible materials

| | |
|--------------------|--|
| Materials to avoid | Strong acids. Strong alkalis. Strong oxidising agents. Strong reducing agents. |
|--------------------|--|

10.6. Hazardous decomposition products

| | |
|----------------------------------|--|
| Hazardous decomposition products | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. |
|----------------------------------|--|

SECTION 11: Toxicological information

11.1. Information on toxicological effects

NITOFLOR FC130 Hardener

| | |
|------------------------------|---|
| Toxicological effects | No information available. |
| Inhalation | Gas or vapour in high concentrations may irritate the respiratory system. |
| Ingestion | May cause discomfort if swallowed. |
| Skin contact | May cause sensitisation by skin contact. May cause irritation. |
| Eye contact | Irritating to eyes. |

Toxicological information on ingredients.

PENTAETHYLENEHEXAMINE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,591.4

Species Rat

ATE oral (mg/kg) 1,591.4

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 1,720.0

Species Rabbit

ATE dermal (mg/kg) 1,720.0

SECTION 12: Ecological information

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

12.1. Toxicity

Toxicity Ecotoxic to fish/daphnia/algae

Acute aquatic toxicity

Acute toxicity - fish Not determined.

Ecological information on ingredients.

SILICA FUME

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >10000 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: >10000 mg/l, Daphnia magna

PENTAETHYLENEHEXAMINE

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hours: 180 mg/l, Poecilia reticulata (Guppy)

NITOFLOR FC130 Hardener

| | |
|---|--|
| Acute toxicity - aquatic invertebrates | EC ₅₀ , 48 hours: 17.5 mg/l, Daphnia magna |
| Acute toxicity - aquatic plants | EC ₅₀ , 72 hours: 0.7 mg/l, Pseudokirchneriella subcapitata |
| <u>Chronic aquatic toxicity</u> | |
| M factor (Chronic) | 1 |

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

Bioaccumulative potential Not expected to be bioaccumulative.

12.4. Mobility in soil

Mobility Mobile. Partially soluble in water.

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.

12.6. Other adverse effects

Other adverse effects Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be considered.

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.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

NITOFLOR FC130 Hardener

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 | Control of Substances Hazardous to Health Regulations 2002 (as amended). |
| 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. Approved Classification and Labelling Guide (Sixth edition) L131. |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

| | |
|----------------------------------|---|
| General information | For professional users only. The user must be instructed in the proper work procedure and be familiar with the contents of these instructions. |
| Revision comments | NOTE: Lines within the margin indicate significant changes from the previous revision. Revised classification. |
| Revision date | 30/08/2019 |
| Revision | 5 |
| Supersedes date | 06/06/2015 |
| SDS number | 12390 |
| Hazard statements in full | H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. |

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.