

SAFETY DATA SHEET NITOFLOR DPM BASE

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

1.1. Product identifier

Product name NITOFLOR DPM BASE

Product number 1825200 UK9, 1825202 UK9, 1825210 UK9, 1825212 UK9

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

Identified usesBase component of two-part epoxy primer 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 2 - H411

2.2. Label elements

Hazard pictograms





Signal word Warning

Hazard statements 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.

NITOFLOR DPM BASE

Precautionary statements P261 Avoid breathing vapour/ spray.

P264 Wash contaminated skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

P501 Dispose of contents/ container in accordance with national regulations.

Contains BISPHENOL A EPOXY RESIN, ALKYL GLYCIDYL ETHER C12/C14, EPOXY RESIN (Type

F) (Number average MW <= 700)

Supplementary precautionary

statements

P264 Wash contaminated skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

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

BISPHENOL A EPOXY RESIN	60-100%

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

NITOFLOR DPM BASE

NONYLPHENOL 1-5%

Classification

Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Repr. 2 - H361

Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

2-METHOXY-1-METHYLETHYL ACETATE 1-5%

CAS number: 108-65-6 EC number: 203-603-9 REACH registration number: 01-

2119475791-29

Classification Flam. Liq. 3 - H226

ALKYL GLYCIDYL ETHER C12/C14 1-5%

CAS number: 68609-97-2 EC number: 271-846-8 REACH registration number: 01-

2119485289-22-XXXX

Classification

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

Formaldehyde, oligomeric reaction products with 1-chloro-

<1%

2,3-epoxypropane and phenol

CAS number: 9003-36-5 EC number: 500-006-8

Classification

Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

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 Move affected person to fresh air at once. If breathing stops, provide artificial respiration. For

breathing difficulties, oxygen may be necessary. Get medical attention. Show this Safety Data

Sheet to the medical personnel.

Ingestion Do Not induce vomiting. Get medical attention immediately.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact Continue to rinse for at least 15 minutes and get medical attention.

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

NITOFLOR DPM BASE

Skin contact Irritating to skin. May cause sensitisation or allergic reactions in sensitive individuals.

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 Small fires: Dry chemicals, sand, dolomite etc. Larger fires: Water spray, foam, dry powder or

carbon dioxide. 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

Carbon dioxide (CO2). Carbon monoxide (CO).

5.3. Advice for firefighters

Protective actions during

firefighting

Containers close to fire should be removed or cooled with water.

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective Special protective equipment

for firefighters

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.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with sand or other inert absorbent.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid contact with skin and eyes.

Advice on general Persons susceptible to allergic reactions should not handle this product. Wash promptly with

occupational hygiene soap and water if skin becomes contaminated.

7.2. Conditions for safe storage, including any incompatibilities

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

Storage class Chemical storage.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

NITOFLOR DPM BASE

2-METHOXY-1-METHYLETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 274 mg/m³ Short-term exposure limit (15-minute): WEL 100 ppm 548 mg/m³ Sk

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

BISPHENOL A EPOXY RESIN (CAS: 25068-38-6)

DNEL Workers - Inhalation; Long term, Short term systemic effects: 12.25 mg/m³

Workers - Dermal; Long term, Short term systemic effects: 8.33 mg/kg/day

PNEC - Fresh water; 0.006 mg/l

marine water; 0.0006 mg/lIntermittent release; 0.018 mg/l

- Soil; 0.196 mg/kg

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

DNEL Workers - Inhalation; Long term systemic effects: 275 mg/m³

Workers - Dermal; Long term systemic effects: 153.5 mg/kg bw/day General population - Inhalation; Long term systemic effects: 33 mg/m³ General population - Dermal; Long term systemic effects: 54.8 mg/kg bw/day

PNEC - Aqua, Fresh water; 0.635 mg/l

- Aqua, marine water; 0.0635 mg/l

ALKYL GLYCIDYL ETHER C12/C14 (CAS: 68609-97-2)

DNEL Workers - Inhalation; Long term systemic effects: 3.6 mg/m³

Workers - Dermal; Long term systemic effects: 1 mg/kg/day

PNEC - Fresh water; 0.0072 mg/l

- marine water; 0.00072 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/m³

Workers - Dermal; Long term systemic effects: 104.15 mg/kg/day

Workers - Dermal; Short term local effects: 8.3 µg/cm2

PNEC - Fresh water; 0.003 mg/l

- marine water; 0.0003 mg/l

- STP; 10 mg/l

8.2. Exposure controls

Protective equipment







Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection Wear chemical splash goggles.

NITOFLOR DPM BASE

Hand protection Butyl rubber. Neoprene. Nitrile rubber. Polyethylene. Polyvinyl chloride (PVC).

Other skin and body

protection

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Various colours. Odour Characteristic.

Odour threshold Not determined.

pН pH (concentrated solution): 7

Melting point Not determined. Initial boiling point and range > 200°C @ 1 atm

> 150°C Flash point

Not determined. **Evaporation rate** Flammability (solid, gas) Not applicable. Not determined.

Upper/lower flammability or

explosive limits

Vapour pressure Not determined. Relative density Not determined. Solubility(ies) Not determined.

Explosive properties Not considered to be explosive.

Oxidising properties Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information No data available.

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 and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous Avoid strong oxidising agents, caustic soda, bases, ammonia, primary and secondary amines,

reactions alcohols and acids.

10.4. Conditions to avoid

Conditions to avoid Keep at temperature not exceeding 300°C. Potentially violent decomposition can occur above

350°C: rapid gas generation during decomposition can cause explosive pressure build-up in

closed systems.

NITOFLOR DPM BASE

10.5. Incompatible materials

Materials to avoid Acids. Bases Oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

No data available.

products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects This product has low toxicity.

Acute toxicity - oral

Acute toxicity oral (LD₅o

11,400.0

mg/kg)

ATE oral (mg/kg) 81,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD50

1,200.0

mg/kg)

Skin sensitisation

Skin sensitisation May cause sensitisation by skin contact.

Skin contact The product contains a sensitising substance.

Toxicological information on ingredients.

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

Acute toxicity - oral

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

SECTION 12: Ecological information

12.1. Toxicity

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

Ecological information on ingredients.

BISPHENOL A EPOXY RESIN

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)

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

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >1000 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: >1000 mg/l, Daphnia magna

12.2. Persistence and degradability

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

Ecological information on ingredients.

NITOFLOR DPM BASE

BISPHENOL A EPOXY RESIN

Persistence and degradability

The product is not readily biodegradable.

Biodegradation

- Degradation 12%: 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Ecological information on ingredients.

BISPHENOL A EPOXY RESIN

Bioaccumulative potential May accumulate in soil and water systems. BCF: 100,

Partition coefficient : log Pow = Approximately 3.8 at 25 C

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

Partition coefficient : log Pow = Approximately 3.8 at 25 C

12.4. Mobility in soil

Mobility The product has poor water-solubility.

Ecological information on ingredients.

BISPHENOL A EPOXY RESIN

Mobility Not considered mobile.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

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

assessment

Ecological information on ingredients.

BISPHENOL A EPOXY RESIN

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

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. Dispose of waste to licensed waste disposal site in

accordance with the requirements of the local Waste Disposal Authority. Note that fully cured

material is not considered as hazardous waste.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3082
UN No. (IMDG) 3082
UN No. (ICAO) 3082

NITOFLOR DPM BASE

UN No. (ADN) 3082

14.2. UN proper shipping name

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS

(ADR/RID) BISPHENOL A EPOXY RESIN, EPOXY RESIN (Type F) (Number average MW <= 700))

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS

BISPHENOL A EPOXY RESIN, EPOXY RESIN (Type F) (Number average MW <= 700))

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS

BISPHENOL A EPOXY RESIN, EPOXY RESIN (Type F) (Number average MW <= 700))

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS

BISPHENOL A EPOXY RESIN, EPOXY RESIN (Type 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

ICAO packing group

ADN packing group

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 90

(ADR/RID)

Tunnel restriction code (E)

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

NITOFLOR DPM BASE

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 Commission Regulation (EU) No 453/2010 of 20 May 2010.

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).

Guidance Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information Only trained personnel should use this material.

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

Revision date 13/11/2019

Revision 2a

Supersedes date 25/05/2017

SDS number 12091

Hazard statements in full H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

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.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

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



SAFETY DATA SHEET NITOFLOR DPM BASE (Red, yellow)

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

1.1. Product identifier

Product name NITOFLOR DPM BASE (Red, yellow)

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

Identified uses Base component of two-part epoxy primer 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

enquiryuk@fosroc.com Tel. +44 (0) 1827 262222 Fax. +44 (0) 1827 262444

1.4. Emergency telephone number

Emergency telephone +44 (0) 1827 265 279 (08.30 to 17.00hrs Mon - Thu; 0.8.30 to 16.00hrs Fri)

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

Classification (67/548/EEC or Repr. Cat. 3;R62,R63. Xi;R36/38. R43. N;R51/53. **1999/45/EC)**

2.2. Label elements

Pictogram





Signal word Warning

Hazard statements 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.

NITOFLOR DPM BASE (Red, yellow)

Precautionary statements P261 Avoid breathing vapour/ spray.

P264 Wash contaminated skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

P501 Dispose of contents/ container in accordance with national regulations.

Contains BISPHENOL A EPOXY RESIN, ALKYL GLYCIDYL ETHER C12/C14, EPOXY RESIN (Type

F) (Number average MW <= 700)

Supplementary precautionary

statements

P264 Wash contaminated skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

BISPHENOL A EPOXY RESIN 60-100%

CAS number: 25068-38-6 EC number: 500-033-5

Classification Classification (67/548/EEC or 1999/45/EC)

Skin Irrit. 2 - H315 R43 Xi;R36/38 N;R51/53

Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

ALKYL GLYCIDYL ETHER C12/C14 1-5%

Classification Classification (67/548/EEC or 1999/45/EC)

Skin Irrit. 2 - H315 Xi;R38. R43.

Skin Sens. 1 - H317

NITOFLOR DPM BASE (Red, yellow)

2-Methoxy-1-Methylethyl Acetate 1-5%

CAS number: 108-65-6 EC number: 203-603-9

Classification Flam. Liq. 3 - H226

EPOXY RESIN (Type F) (Number average MW <= 700)

<1%

CAS number: 9003-36-5

Classification Classification (67/548/EEC or 1999/45/EC)

Skin Irrit. 2 - H315 R43 Xi;R36/38 N;R51/53

Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

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 Move affected person to fresh air at once. If breathing stops, provide artificial respiration. For

breathing difficulties, oxygen may be necessary. Get medical attention. Show this Safety Data

Sheet to the medical personnel.

Ingestion Do Not induce vomiting. Get medical attention immediately.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact 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 Irritating to skin. May cause sensitisation or allergic reactions in sensitive individuals.

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 Small fires: Dry chemicals, sand, dolomite etc. Larger fires: Water spray, foam, dry powder or

carbon dioxide. 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 Carbon dioxide (CO2). Carbon monoxide (CO).

products

5.3. Advice for firefighters

Protective actions during Containers close to fire should be removed or cooled with water.

firefighting

Special protective equipment Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

for firefighters clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

NITOFLOR DPM BASE (Red, yellow)

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.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with sand or other inert absorbent.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid contact with skin and eyes.

Advice on general Persons susceptible to allergic reactions should not handle this product. Wash promptly with

occupational hygiene soap and water if skin becomes contaminated.

7.2. Conditions for safe storage, including any incompatibilities

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

Storage class Chemical storage.

7.3. Specific end use(s)

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

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

2-Methoxy-1-Methylethyl Acetate

Long-term exposure limit (8-hour TWA): WEL 50 ppm 274 mg/m³ Short-term exposure limit (15-minute): WEL 100 ppm 548 mg/m³

Sk

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

BISPHENOL A EPOXY RESIN (CAS: 25068-38-6)

DNEL Workers - Inhalation; Long term, Short term systemic effects: 12.25 mg/m³

Workers - Dermal; Long term, Short term systemic effects: 8.33 mg/kg/day

PNEC - Fresh water; 0.006 mg/l

Marine water; 0.0006 mg/lIntermittent release; 0.018 mg/l

- Soil; 0.196 mg/kg

2-Methoxy-1-Methylethyl Acetate (CAS: 108-65-6)

DNEL Workers - Inhalation; Long term systemic effects: 275 mg/m³

Workers - Dermal; Long term systemic effects: 153.5 mg/kg bw/day General population - Inhalation; Long term systemic effects: 33 mg/m³

General population - Dermal; Long term systemic effects: 54.8 mg/kg bw/day

PNEC - Aqua, Fresh water; 0.635 mg/l

- Aqua, Marine water; 0.0635 mg/l

NITOFLOR DPM BASE (Red, yellow)

ALKYL GLYCIDYL ETHER C12/C14 (CAS: 68609-97-2)

DNEL Workers - Inhalation; Long term systemic effects: 3.6 mg/m³

Workers - Dermal; Long term systemic effects: 1 mg/kg/day

PNEC - Fresh water; 0.0072 mg/l

- Marine water; 0.00072 mg/l

EPOXY RESIN (Type F) (Number average MW <= 700) (CAS: 9003-36-5)

DNEL Workers - Inhalation; Long term systemic effects: 29.39 mg/m³

Workers - Dermal; Long term systemic effects: 104.15 mg/kg/day

Workers - Dermal; Short term local effects: 8.3 µg/cm2

PNEC - Fresh water; 0.003 mg/l

- Marine water; 0.0003 mg/l

- STP; 10 mg/l

8.2. Exposure controls

Protective equipment







Appropriate engineering

controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection Wear chemical splash goggles.

Hand protection Butyl rubber. Neoprene. Nitrile rubber. Polyethylene. Polyvinyl chloride (PVC).

Other skin and body

protection

Wear apron or protective clothing in case of contact.

Hygiene measures Wash hands at the end of each work shift and before eating, smoking and using the toilet.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Various colours.

Odour Characteristic.

Odour threshold Not determined.

pH pH (concentrated solution): 7

Melting point Not determined.

Initial boiling point and range > 200°C @ 1 atm

Flash point > 150°C

Evaporation rate Not determined.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

explosive limits

Not determined.

NITOFLOR DPM BASE (Red, yellow)

Vapour pressure Not determined.

Relative density Not determined.

Solubility(ies) Not determined.

Explosive properties Not considered to be explosive.

Oxidising properties Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information No data available.

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 and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Avoid strong oxidising agents, caustic soda, bases, ammonia, primary and secondary amines,

alcohols and acids.

10.4. Conditions to avoid

Conditions to avoid Keep at temperature not exceeding 300°C. Potentially violent decomposition can occur above

350°C: rapid gas generation during decomposition can cause explosive pressure build-up in

closed systems.

10.5. Incompatible materials

Materials to avoid Acids. Bases Oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

No data available.

products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects This product has low toxicity.

Acute toxicity - oral

Acute toxicity oral (LD50

11,400.0

mg/kg)

ATE oral (mg/kg) 81,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅o

1.200.0

mg/kg)

Skin sensitisation

Skin sensitisation May cause sensitisation by skin contact.

Skin contact

contact The product contains a sensitising substance.

NITOFLOR DPM BASE (Red, yellow)

Toxicological information on ingredients.

EPOXY RESIN (Type F) (Number average MW <= 700)

Acute toxicity - oral

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

SECTION 12: Ecological Information

12.1. Toxicity

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

Ecological information on ingredients.

BISPHENOL A EPOXY RESIN

Acute toxicity - fish LC₅₀, 96 hours: 2 mg/l, Onchorhynchus mykiss (Rainbow trout)

EPOXY RESIN (Type F) (Number average MW <= 700)

Acute toxicity - fish LC₅₀, 96 hours: >1000 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: >1000 mg/l, Daphnia magna

12.2. Persistence and degradability

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

Ecological information on ingredients.

BISPHENOL A EPOXY RESIN

Persistence and

degradability

The product is not readily biodegradable.

Biodegradation - Degradation 12%: 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Ecological information on ingredients.

BISPHENOL A EPOXY RESIN

Bioaccumulative potential May accumulate in soil and water systems. BCF: 100,

Partition coefficient : log Pow = Approximately 3.8 at 25 C

EPOXY RESIN (Type F) (Number average MW <= 700)

Partition coefficient : log Pow = Approximately 3.8 at 25 C

12.4. Mobility in soil

Mobility The product has poor water-solubility.

Ecological information on ingredients.

BISPHENOL A EPOXY RESIN

Mobility Not considered mobile.

NITOFLOR DPM BASE (Red, yellow)

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

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

assessment

Ecological information on ingredients.

BISPHENOL A EPOXY RESIN

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

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. Dispose of waste to licensed waste disposal site in

accordance with the requirements of the local Waste Disposal Authority. Note that fully cured

material is not considered as hazardous waste.

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 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS

(ADR/RID) BISPHENOL A EPOXY RESIN, EPOXY RESIN (Type F) (Number average MW <= 700))

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS

BISPHENOL A EPOXY RESIN, EPOXY RESIN (Type F) (Number average MW <= 700))

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS

BISPHENOL A EPOXY RESIN, EPOXY RESIN (Type F) (Number average MW <= 700))

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS

BISPHENOL A EPOXY RESIN, EPOXY RESIN (Type 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

NITOFLOR DPM BASE (Red, yellow)

Transport labels



14.4. Packing group

ADR/RID packing group III
IMDG packing group III
ADN packing group III
ICAO 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 90

(ADR/RID)

Tunnel restriction code (E)

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 Commission Regulation (EU) No 453/2010 of 20 May 2010.

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).

Guidance Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information Only trained personnel should use this material.

NITOFLOR DPM BASE (Red, yellow)

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

Revision date 03/08/2015

Revision 2

Risk phrases in full R22 Harmful if swallowed.

R34 Causes burns.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic 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.

R62 Possible risk of impaired fertility.

R63 Possible risk of harm to the unborn child.

Hazard statements in full H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

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.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

SDS number 12091

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.



SAFETY DATA SHEET NITOFLOR DPM HARDENER

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

1.1. Product identifier

Product name NITOFLOR DPM HARDENER

Product number 1825200UK9, 1825202UK9, 1825210UK9, 1825212UK9

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 Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens.

1 - H317 Repr. 2 - H361f

Environmental hazards Not Classified

Human health Corrosive to skin and eyes. May cause skin sensitisation or allergic reactions in sensitive

individuals. Harmful by inhalation.

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







Danger

Signal word

Hazard statements H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction. H361f Suspected of damaging fertility.

H302+H332 Harmful if swallowed or if inhaled.

Precautionary statements P261 Avoid breathing vapour/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/ container in accordance with national regulations.

Contains BENZYL ALCOHOL, ISOPHORONEDIAMINE, Bisphenol A, 3-

AMINOPROPYLDIMETHYLAMINE

Supplementary precautionary

statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe vapour/ spray.

P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/ attention.

P312 Call a POISON CENTRE/doctor if you feel unwell. P321 Specific treatment (see medical advice on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

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

BENZYL ALCOHOL 30-60%

CAS number: 100-51-6 EC number: 202-859-9 REACH registration number: 01-

2119492630-38

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H332 Eye Irrit. 2 - H319

NITOFLOR DPM HARDENER

 ISOPHORONEDIAMINE

 CAS number: 2855-13-2
 EC number: 220-666-8
 REACH registration number: 01-2119514687-32-xxxx

 Classification

 Acute Tox. 4 - H302

 Acute Tox. 4 - H312
 Skin Corr. 1B - H314

 Eye Dam. 1 - H318

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

1-5%

CAS number: 90-72-2 EC number: 202-013-9 REACH registration number: 01-

2119560597-27

Classification

Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319

Skin Sens. 1 - H317 Aquatic Chronic 3 - H412

3-AMINOPROPYLDIMETHYLAMINE

1-5%

CAS number: 109-55-7 EC number: 203-680-9

Classification

Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Bisphenol A 1-5%

CAS number: 80-05-7 EC number: 201-245-8 REACH registration number: 01-

2119457856-23

Substance of very high concern (SVHC).

Classification

Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 1B - H360F STOT SE 3 - H335

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

Composition comments This product contains a substance at a concentration of ≥ 0.1 % w/w which is included in the

candidate list according to Article 59 (1, 10) of REACH Regulation EC No. 1907/2006:

SECTION 4: First aid measures

4.1. Description of first aid measures

NITOFLOR DPM HARDENER

Inhalation Move affected person to fresh air at once. Rinse nose and mouth with water. Never give

anything by mouth to an unconscious person. Do not induce vomiting. Keep affected person

warm and at rest. Get medical attention immediately.

Ingestion Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not

induce vomiting. Rinse mouth thoroughly with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention

immediately.

Skin contact Remove affected person from source of contamination. Rinse immediately with plenty of

water. Get medical attention promptly if symptoms occur after washing.

Eye contact Remove affected person from source of contamination. Remove any contact lenses and open

eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

Protection of first aiders

No specific requirements are anticipated under normal conditions of use.

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

General information The product contains a sensitising substance. No specific symptoms noted.

Inhalation Harmful by inhalation.

Ingestion May cause chemical burns in mouth and throat.

Skin contact Irritating to skin. Prolonged contact may cause burns. May cause sensitisation by skin contact.

Eye contact May cause serious eye damage.

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.

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

Carbon dioxide (CO2). Carbon monoxide (CO). Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during

firefighting

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 Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Provide adequate

ventilation. Wear protective gloves, eye and face protection.

For emergency responders Ensure adequate ventilation/exhaust extraction.

6.2. Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses. Avoid release to the

environment.

NITOFLOR DPM HARDENER

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots,

clothing or apron, as appropriate. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Avoid contamination of ponds or watercourses with

washing down water.

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. Avoid contact with skin and eyes. Avoid inhalation of vapours and

spray/mists.

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 Corrosive 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

Bisphenol A

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

WEL = Workplace Exposure Limit

BENZYL ALCOHOL (CAS: 100-51-6)

DNEL Workers - Inhalation; Short term systemic effects: 110 mg/m³

Workers - Inhalation; Long term systemic effects: 22 mg/m³ Workers - Dermal; Short term systemic effects: 40 mg/kg bw/day Workers - Dermal; Long term systemic effects: 8 mg/kg bw/day

PNEC - Fresh water; 1 mg/l

- marine water; 0.1 mg/l

- STP; 39 mg/l

3-AMINOPROPYLDIMETHYLAMINE (CAS: 109-55-7)

DNEL Workers - Inhalation; Long term systemic effects: 4.9 mg/m³

Workers - Inhalation; Short term systemic effects: 9.8 mg/m³

PNEC - Fresh water; 0.034 mg/l

- marine water; 0.0034 mg/l

- STP; 69.5 mg/l

ISOPHORONEDIAMINE (CAS: 2855-13-2)

PNEC - marine water; 0.006 mg/l

- Fresh water; 0.06 mg/l

- Soil; 1.121 mg/kg

8.2. Exposure controls

Protective equipment





Appropriate engineering

controls

Provide adequate general and local exhaust ventilation.

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates

eye contact is possible. The following protection should be worn: Chemical splash goggles.

Hand protection Wear protective gloves made of the following material: Nitrile rubber. Viton rubber (fluoro

rubber). Polyvinylidene chloride/polyethylene (PVDC/PE).

Other skin and body

protection

Wear appropriate clothing to prevent skin contamination. Provide eyewash station.

Hygiene measures Wash at the end of each work shift and before eating, smoking and using the toilet. Wash

promptly with soap and water if skin becomes contaminated. Promptly remove any clothing

that becomes wet or contaminated.

Respiratory protection
No specific recommendations. Respiratory protection must be used if the airborne

contamination exceeds the recommended occupational exposure limit. Organic vapour filter.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Yellowish.

Odour Amine.

Odour threshold Not determined.

pH Not determined.

Melting point Not determined.

Evaporation rate Not determined.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

explosive limits

Not determined.

Vapour pressure Not determined.

Vapour density Not determined.

Solubility(ies) Soluble in water.

Partition coefficient Not determined.

Auto-ignition temperature Not determined.

Explosive properties Not considered to be explosive.

Oxidising properties Does not meet the criteria for classification as oxidising.

NITOFLOR DPM HARDENER

9.2. Other information

Other information Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable at normal ambient temperatures.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous

Will not polymerise.

reactions

10.4. Conditions to avoid

Conditions to avoid The following materials may react violently with the product: Strong oxidising agents.

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

Hazardous decomposition

products

Ammonia or amines.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 4,078.55

Acute toxicity - dermal

ATE dermal (mg/kg) 110,000.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 36.67

Inhalation May cause respiratory system irritation. May cause sensitisation by inhalation. May cause

respiratory allergy.

Ingestion Causes burns. May cause chemical burns in mouth and throat. May cause stomach pain or

vomiting.

Skin contact May cause allergic contact eczema. Product has a defatting effect on skin. May cause allergic

contact eczema. May cause sensitisation by skin contact. Causes burns. Harmful in contact

with skin.

Eye contact Severe irritation, burning and tearing. Causes burns.

Toxicological information on ingredients.

BENZYL ALCOHOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 1,620.0

mg/kg)

NITOFLOR DPM HARDENER

Species Rat

ATE oral (mg/kg) 1,620.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.0

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 2,001.0

Acute toxicity - inhalation

Acute toxicity inhalation

11.0

(LC₅₀ vapours mg/l)

Species Rat

ATE inhalation (vapours

mg/l)

11.0

Skin sensitisation

Skin sensitisation Not sensitising.

Carcinogenicity

Carcinogenicity NOAEL 200 mg/kg/day, Oral, Mouse There is no evidence that the product can

cause cancer.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 400 mg/kg, Oral, Rat

.

Inhalation May cause coughing and difficulties in breathing.

Ingestion May cause burns in mucous membranes, throat, oesophagus and stomach.

Skin contact Prolonged and frequent contact may cause redness and irritation.

Eye contact Severe irritation, burning and tearing.

ISOPHORONEDIAMINE

Acute toxicity - oral

Acute toxicity oral (LD50

1,030.0

mg/kg)

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 1,840.0

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 1,100.0

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

NITOFLOR DPM HARDENER

Acute toxicity - oral

ATE oral (mg/kg) 500.0

3-AMINOPROPYLDIMETHYLAMINE

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

410.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l)

4.31

Species Rat

ATE inhalation (vapours

mg/l)

4.31

Bisphenol A

Acute toxicity - inhalation

Acute toxicity inhalation

(LC₅₀ vapours mg/l)

5.0

5.0

ATE inhalation (vapours

mg/l)

SECTION 12: Ecological information

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

environment.

12.1. Toxicity

Ecological information on ingredients.

BENZYL ALCOHOL

Acute aquatic toxicity

Acute toxicity - fish LC₅o, 96 hours: 460 mg/l, Pimephales promelas (Fat-head Minnow)

 LC_{50} , 96 hours: 10 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic

invertebrates

EC₈₀, 48 hours: 230 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, 72 hours: 770 mg/l, Pseudokirchneriella subcapitata NOEC, 72 hours: 310 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms

LC₅₀, 49 hours: 2100 mg/l, Activated sludge

ISOPHORONEDIAMINE

NITOFLOR DPM HARDENER

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 110 mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 23 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

IC₅₀, 72 hours: 50 mg/l, Algae

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 175 mg/l, Cyprinus carpio (Common carp)

3-AMINOPROPYLDIMETHYLAMINE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 122 mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 59.5 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

IC₅₀, 72 hours: 53.5 mg/l, Algae

12.2. Persistence and degradability

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

Ecological information on ingredients.

ISOPHORONEDIAMINE

Persistence and degradability

The product is not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

ISOPHORONEDIAMINE

Bioaccumulative potential
The product does not contain any substances expected to be bioaccumulating.

Partition coefficient log Kow: 0.99

12.4. Mobility in soil

Mobility The product contains substances which are water-soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

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

assessment

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible. Note that fully

cured material is not considered as hazardous waste.

Disposal methodsDispose 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) 2735 UN No. (IMDG) 2735 UN No. (ICAO) 2735 UN No. (ADN) 2735

14.2. UN proper shipping name

Proper shipping name

(ADR/RID)

AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 3-AMINOPROPYLDIMETHYLAMINE,

ISOPHORONEDIAMINE)

Proper shipping name (IMDG) AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 3-AMINOPROPYLDIMETHYLAMINE,

ISOPHORONEDIAMINE)

Proper shipping name (ICAO) AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 3-AMINOPROPYLDIMETHYLAMINE,

ISOPHORONEDIAMINE)

Proper shipping name (ADN) AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 3-AMINOPROPYLDIMETHYLAMINE,

ISOPHORONEDIAMINE)

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C7

ADR/RID label 8

IMDG class 8

ICAO class/division 8

ADN class 8

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

No.

14.6. Special precautions for user

EmS F-A, S-B

ADR transport category 2

Emergency Action Code 2X

Hazard Identification Number 80

(ADR/RID)

Tunnel restriction code (E)

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 Commission Regulation (EU) No 453/2010 of 20 May 2010.

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).

Guidance Workplace Exposure Limits EH40.

Introduction to Local Exhaust Ventilation HS(G)37.

CHIP for everyone HSG228.

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

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

Revision date 14/11/2019

Revision 4b

Supersedes date 25/05/2017

SDS number 12092

Hazard statements in full 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.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H360F May damage fertility.

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.