

SAFETY DATA SHEET NITOFLOR EPU BASE

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

1.1. Product identifier

NITOFLOR EPU BASE **Product name**

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

Identified uses Base Component of Two-Part Epoxy PU Protective Coating System

1.3. Details of the supplier of the safety data sheet

Supplier Fosroc Idea Yapi Kimyasallari San. Ve Tic. A.S.

Aydinevler mah. Sanayi cad. Demirtas Plaza No:13 Kat:3 34854

Maltepe ISTANBUL

TURKEY

+90 216 463 6776

enquiryturkey@fosroc.com

1.4. Emergency telephone number

+90 262 728 15 05 **Emergency telephone**

National emergency telephone 114

number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Repr. 1B - H360

Environmental hazards Aquatic Chronic 2 - H411

1999/45/EC)

Classification (67/548/EEC or Repr. Cat. 2;R61. Xi;R36/37/38. R43. R52/53.

Human health See Section 11 for additional information on health hazards.

Environmental The product contains a substance which may cause long-term adverse effects in the

environment.

2.2. Label elements

Hazard pictograms









Signal word

Danger

NITOFLOR EPU BASE

Hazard statements H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

H360 May damage fertility or the unborn child. H411 Toxic to aquatic life with long lasting effects.

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

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P233 Keep container tightly closed.

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

P405 Store locked up.

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

Contains EPOXY RESIN (Type A) (Number average MW <= 700), EPICHLOROHYDRIN, POLYMER

W/BISPHENOL A, DIBUTYL PHTHALATE

Supplementary precautionary

statements

P201 Obtain special instructions before use.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

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.

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

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.

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

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.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

P391 Collect spillage.

P403+P235 Store in a well-ventilated place. Keep cool.

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

NITOFLOR EPU BASE

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin

10-30%

(number average molecular weight ≤ 700)

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

EPICHLOROHYDRIN, POLYMER W/BISPHENOL A

10-30%

Classification

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

XYLENE 10-30%

CAS number: 1330-20-7 EC number: 215-535-7 REACH registration number: 01-

2119488216-32-0000

Classification

Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315

DIBUTYL PHTHALATE 1-5%

Classification

Acute Tox. 3 - H331 Repr. 1B - H360 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

1-METHOXY-2-PROPANOL

<1%

CAS number: 107-98-2 EC number: 203-539-1

Classification

Flam. Liq. 3 - H226 STOT SE 3 - H336

NITOFLOR EPU BASE

ETHYLBENZENE <1%

CAS number: 100-41-4 EC number: 202-849-4

Classification

Flam. Liq. 2 - H225 Acute Tox. 4 - H332 STOT RE 2 - H373 Asp. Tox. 1 - H304

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 Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing.

Inhalation Place unconscious person on their side in the recovery position and ensure breathing can

take place. When breathing is difficult, properly trained personnel may assist affected person

by administering oxygen. Get medical attention if any discomfort continues.

Ingestion 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 and

rinse skin thoroughly with water.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

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

at least 15 minutes. Get medical attention if irritation persists after washing.

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 Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion May be harmful if swallowed.

Skin contact May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use foam, carbon dioxide, dry powder or water fog to extinguish.

Unsuitable extinguishing

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

media

5.2. Special hazards arising from the substance or mixture

Specific hazards Not known.

NITOFLOR EPU BASE

Hazardous combustion

products

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

5.3. Advice for firefighters

Protective actions during

firefighting

Fight fire with normal precautions from a reasonable distance. Avoid breathing fire gases or vapours. Containers close to fire should be removed or cooled with water. Avoid the spillage

or runoff entering drains, sewers or 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 For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Contain spillage with sand, earth or other suitable non-combustible material. Take care as floors and other surfaces may become slippery. Collect and place in suitable waste disposal containers and seal securely. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

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

Good personal hygiene procedures should be implemented. Avoid contact with skin, eyes and clothing. Avoid breathing vapour/spray. For professional users only.

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.

Storage class

Flammable liquid 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

XYLENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m³ Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m³ Sk

DIBUTYL PHTHALATE

Long-term exposure limit (8-hour TWA): WEL 5 mg/m³ Short-term exposure limit (15-minute): WEL 10 mg/m³

1-METHOXY-2-PROPANOL

NITOFLOR EPU BASE

Sk

Long-term exposure limit (8-hour TWA): WEL 100 ppm 375 mg/m³ Short-term exposure limit (15-minute): WEL 150 ppm 560 mg/m³

ETHYLBENZENE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 441 mg/m³ Short-term exposure limit (15-minute): WEL 125 ppm 552 mg/m³ Sk

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

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) (CAS: 25068-38-6)

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

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

PNEC - Fresh water; 0.006 mg/l

XYLENE (CAS: 1330-20-7)

DNEL Workers - Inhalation; Long term systemic effects: 77 mg/m³

Workers - Inhalation; Short term systemic effects: 289 mg/m³ Workers - Dermal; Long term systemic effects: 180 mg/kg/day

PNEC - Fresh water; 0.327 mg/l

- marine water; 0.327 mg/l

- STP; 6.58 mg/l

DIBUTYL PHTHALATE (CAS: 84-74-2)

DNEL Workers - Inhalation; Long term systemic effects: 0.13 mg/m³

Workers - Dermal; Long term systemic effects: 0.19 mg/kg bw/day

PNEC - Fresh water; 10 μg/l

- marine water; 1 µg/l

1-METHOXY-2-PROPANOL (CAS: 107-98-2)

DNEL Industry - Inhalation; Short term local effects: 553.5 mg/m³

Industry - Dermal; Long term systemic effects: 50.6 mg/kg/day Industry - Inhalation; Long term systemic effects: 369 mg/m³

PNEC - Fresh water; 10 mg/l

- marine water; 1 mg/l

- Intermittent release; 100 mg/l

ETHYLBENZENE (CAS: 100-41-4)

DNEL Workers - Inhalation; Long term systemic effects: 77 mg/m³

Workers - Dermal; Long term systemic effects: 180 mg/kg bw/day

PNEC - Fresh water; 0.1 mg/l

- marine water; 0.01 mg/l

8.2. Exposure controls

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Protective equipment









Appropriate engineering controls

Provide adequate general and local exhaust ventilation. 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: Wear tight-fitting, 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. Neoprene. Nitrile rubber.

Other skin and body

protection

Avoid contact with skin. Wear appropriate clothing to prevent any possibility of liquid contact

and repeated or prolonged vapour contact.

Hygiene measures When using do not eat, drink or smoke. Wash at the end of each work shift and before eating,

smoking and using the toilet. Wash contaminated clothing before reuse. Promptly remove any

clothing that becomes wet or contaminated.

Respiratory protection

Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Check that the respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the following cartridge: Gas filter, type A2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Pigmented

Odour Aromatic.

Odour threshold Not available.

pH Not determined.

Melting point Not applicable.

Initial boiling point and range >100° C

Flash point 35°C Closed cup.

Evaporation rate Not available.

Evaporation factor Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or

explosive limits

Not available.

Other flammability

Vapour pressure

Not available.

Vapour density

Not available.

apour denoity

Relative density 1.62 @ 25°C

Bulk density Not applicable.

NITOFLOR EPU BASE

Solubility(ies) Immiscible with water.

Partition coefficient Not available.

Auto-ignition temperature 300°C

Decomposition Temperature Not available.

Viscosity 700 - 900 P @ 20°C

Explosive properties Product is not 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 known.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable at normal ambient temperatures and when used as recommended.

10.2. Chemical stability

Stability No particular stability concerns.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Does not decompose when used and stored as recommended.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition

products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - dermal

ATE dermal (mg/kg) 10,813.79

Acute toxicity - inhalation

ATE inhalation (gases ppm) 44,347.21

ATE inhalation (vapours mg/l) 81.41

ATE inhalation (dusts/mists 14

mg/l)

14.78

Carcinogenicity

Carcinogenicity May cause cancer.

Reproductive toxicity

NITOFLOR EPU BASE

Reproductive toxicity - fertility Contains a substance/a group of substances which may damage fertility.

Inhalation Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion May be harmful if swallowed.

Skin contact May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Acute and chronic health

hazards

May damage fertility or the unborn child.

Route of exposure Skin and/or eye contact

Target organs Skin Eyes Gastro-intestinal tract, liver, immune system

Toxicological information on ingredients.

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Acute toxicity - oral

Acute toxicity oral (LD50

5.000.0

mg/kg)

Species Rat

Notes (oral LD₅o) NOAEL 750 mg/kg, Oral, Rat

ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 20,000.0

mg/kg)

Species Rabbit

Notes (dermal LD₅₀) LD₅₀ >1600 mg/kg, Dermal, Rat

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.

XYLENE

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

DIBUTYL PHTHALATE

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

8,000.0

NITOFLOR EPU BASE

Species Rat

8,000.0 ATE oral (mg/kg)

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 20,860.0

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 20,860.0

Acute toxicity - inhalation

Acute toxicity inhalation

4.25

(LC50 vapours mg/l)

Species Rat

ATE inhalation (vapours

mg/l)

4.25

Acute and chronic health

hazards

INGESTION. May cause stomach pain or vomiting. Inhalation May cause respiratory system irritation. SKIN CONTACT. May cause skin irritation/eczema. May cause sensitisation by skin contact. EYE CONTACT. Irritating to eyes.

1-METHOXY-2-PROPANOL

Acute toxicity - oral

Notes (oral LD50) LD₅₀ 11700 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD50) LD₅₀ 13000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC50 10000 ppm, Inhalation, Rat

ETHYLBENZENE

Carcinogenicity

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

SECTION 12: Ecological information

Ecotoxicity May cause long lasting harmful effects to aquatic life.

12.1. Toxicity

Toxicity The product contains a substance which may cause long-term adverse effects in the

environment.

Ecological information on ingredients.

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Toxicity Ecotoxic to fish/daphnia/algae

Acute aquatic toxicity

NITOFLOR EPU BASE

Acute toxicity - fish LC₅₀, 96 hours: 3.6 mg/l, Leuciscus idus (Golden orfe)

LC₅₀, 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 1.8 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC50, 72 hours: 11 mg/l, Scenedesmus capricornutum (fresh water algae)

XYLENE

Toxicity Not considered toxic to fish.

DIBUTYL PHTHALATE

Acute aquatic toxicity

LE(C)₅₀ $0.01 < L(E)C50 \le 0.1$

M factor (Acute) 10

Acute toxicity - fish LC₅₀, 96 hours: 0.85 mg/l, Pimephales promelas (Fat-head Minnow)

LC₅₀, 96 hours: 1.6 mg/l, Salmo gairdneri

Acute toxicity - aquatic

invertebrates

LC₅₀, 48 hours: 3.7 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, 96 hours: 0.75 mg/l, Selenastrum capricornutum

Chronic aquatic toxicity

M factor (Chronic) 10

1-METHOXY-2-PROPANOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 6812 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic

invertebrates

EC50, 48 hours: >21000 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability The product contains inorganic substances which are not biodegradable.

Ecological information on ingredients.

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Persistence and degradability

The product is not readily biodegradable.

XYLENE

Persistence and degradability

Expected to be not readily biodegradable.

1-METHOXY-2-PROPANOL

NITOFLOR EPU BASE

Persistence and degradability

The product is biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Not expected to be bioaccumulative.

Partition coefficient Not available.

Ecological information on ingredients.

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Partition coefficient log Pow: 3.242

1-METHOXY-2-PROPANOL

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

12.4. Mobility in soil

Mobility The product is insoluble in water.

Ecological information on ingredients.

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Mobility The product has poor water-solubility.

Adsorption/desorption

coefficient

Water - Koc: 445 @ °C

XYLENE

Mobility The product is insoluble in water.

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.

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

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 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

14.1. UN number

NITOFLOR EPU BASE

UN No. (ADR/RID) 1263 UN No. (IMDG) 1263 UN No. (ICAO) 1263 UN No. (ADN) 1263

14.2. UN proper shipping name

Proper shipping name

(ADR/RID)

PAINT

Proper shipping name (IMDG) PAINT (CONTAİNS EPOXY RESIN (Type A) (Number average MW <= 700), DIBUTYL

PHTHALATE)

Proper shipping name (ICAO) PAINT
Proper shipping name (ADN) PAINT

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

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-E, S-E

ADR transport category 3

Emergency Action Code •3Y

Hazard Identification Number 3

(ADR/RID)

NITOFLOR EPU BASE

Tunnel restriction code (D/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 Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list

of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and

Directive 91/689/EEC on hazardous waste with amendments.

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).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms

PBT: Persistent, Bioaccumulative and Toxic substance.

used in the safety data sheet vPvB: Very Persistent and Very Bioaccumulative.

CAS: Chemical Abstracts Service.

DNEL: Derived No Effect Level.

EC₅₀: 50% of maximal Effective Concentration.

GHS: Globally Harmonized System.

IATA: International Air Transport Association.

IARC: International Agency for Research on Cancer.

PNEC: Predicted No Effect Concentration.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

(EC) No 1907/2006.

General information Only trained personnel should use this material.

Revision comments This is the first issue.

Revision date 05/05/2020

Revision 1

SDS number 28689

NITOFLOR EPU BASE

Hazard statements in full H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H360 May damage fertility or the unborn child.

H373 May cause damage to organs (Hearing organs) through prolonged or repeated exposure.

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 EPU HARDENER

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

1.1. Product identifier

Product name NITOFLOR EPU HARDENER

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

Identified uses Hardener Component of Two-Part Solvent Based Epoxy Coating

1.3. Details of the supplier of the safety data sheet

Supplier Fosroc Idea Yapi Kimyasallari San. Ve Tic. A.S.

Aydinevler mah. Sanayi cad. Demirtas Plaza No:13 Kat:3 34854

Maltepe ISTANBUL

TURKEY

+90 216 463 6776

enquiryturkey@fosroc.com

1.4. Emergency telephone number

Emergency telephone +90 262 728 15 05

National emergency telephone 114

number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226

Health hazards Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 2 - H361 STOT SE 3 -

H335

Environmental hazards Aquatic Chronic 2 - H411

Human health See Section 11 for additional information on health hazards.

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

Danger

NITOFLOR EPU HARDENER

Hazard statements H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P260 Do not breathe vapour/ spray. P273 Avoid release to the environment.

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

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

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

Contains NONYLPHENOL, O,O'-Bis(2-aminopropyl)polypropyleneglycol, TRIETHYLENETETRAMINE

Supplementary precautionary

statements

P201 Obtain special instructions before use.

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

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P261 Avoid breathing vapour/ spray.

P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

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

Rinse skin with water or shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

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

P310 Immediately call a POISON CENTER/ doctor.

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.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

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

NITOFLOR EPU HARDENER

1-METHOXY-2-PROPANOL 10-30%

CAS number: 107-98-2 EC number: 203-539-1

Classification

Flam. Liq. 3 - H226 STOT SE 3 - H336

O,O'-Bis(2-aminopropyl)polypropyleneglycol

10-30%

CAS number: 9046-10-0

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412

NONYLPHENOL 10-30%

Classification

Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Repr. 2 - H361 Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

TRIETHYLENETETRAMINE 10-30%

CAS number: 112-24-3 EC number: 203-950-6

Classification

Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412

HYDROCARBONS, C9, aromatics 5-10%

CAS number: 64742-95-6 EC number: 918-668-5 REACH registration number: 01-

2119455851-35-0000

Classification

Flam. Liq. 3 - H226 STOT SE 3 - H335, H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411

Aquatic Chronic 2 - H411

NITOFLOR EPU HARDENER

1,2,4-TRIMETHYLBENZENE		1-5%
CAS number: 95-63-6	EC number: 202-436-9	
Classification		
Flam. Liq. 3 - H226		
Acute Tox. 4 - H332		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
STOT SF 3 - H335		

MESITYLENE		1-5%
CAS number: 108-67-8	EC number: 203-604-4	
Classification		
Flam. Liq. 3 - H226		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
STOT SE 3 - H335		
Aquatic Chronic 2 - H411		

CUMENE	<11	%
CAS number: 98-82-8	EC number: 202-704-5	
Classification		
Flam. Liq. 3 - H226		
STOT SE 3 - H335		
Asp. Tox. 1 - H304		
Aquatic Chronic 2 - H411		

ETHYLENEDIAMINE		<1%
CAS number: 107-15-3	EC number: 203-468-6	
Classification		
Flam. Liq. 3 - H226		· ·
Acute Tox. 4 - H302		
Acute Tox. 4 - H312		
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Resp. Sens. 1 - H334		
Skin Sens. 1 - H317		

NITOFLOR EPU HARDENER

XYLENE <1%

CAS number: 1330-20-7 EC number: 215-535-7 REACH registration number: 01-

2119488216-32-0000

Classification

Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315

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 Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing.

Inhalation Never give anything by mouth to an unconscious person. Get medical attention if any

discomfort continues.

Ingestion Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if

readily available. Get medical attention immediately. Do not induce vomiting unless under the

direction of medical personnel.

Skin contact After contact with skin, take off immediately all contaminated clothing, and wash immediately

with plenty of water.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Get medical attention if symptoms are severe or persist after washing.

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 be harmful if swallowed.

Skin contact Causes severe skin burns and eye damage.

Eye contact May cause serious eye damage.

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

Unsuitable extinguishing

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

media

5.2. Special hazards arising from the substance or mixture

Specific hazards Not known.

Hazardous combustion

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

products

NITOFLOR EPU HARDENER

5.3. Advice for firefighters

Protective actions during

firefighting

Fight fire with normal precautions from a reasonable distance. Avoid breathing fire gases or vapours. Containers close to fire should be removed or cooled with water. Avoid the spillage

or runoff entering drains, sewers or 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 For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions

Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Take care as floors and other surfaces may become slippery. Avoid the spillage or runoff entering drains, sewers or watercourses. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely.

6.4. Reference to other sections

Reference to other sections

Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Good personal hygiene procedures should be implemented. Avoid inhalation of vapours and

spray/mists. Avoid contact with skin and eyes.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product.

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.

Storage class

Flammable liquid 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

1-METHOXY-2-PROPANOL

Long-term exposure limit (8-hour TWA): WEL 100 ppm 375 mg/m³ Short-term exposure limit (15-minute): WEL 150 ppm 560 mg/m³

HYDROCARBONS, C9, aromatics

Long-term exposure limit (8-hour TWA): WEL 100 mg/m3

1,2,4-TRIMETHYLBENZENE

NITOFLOR EPU HARDENER

Long-term exposure limit (8-hour TWA): WEL 25 ppm 125 mg/m³ Short-term exposure limit (15-minute): WEL

MESITYLENE

Long-term exposure limit (8-hour TWA): WEL 25 ppm 125 mg/m³ Short-term exposure limit (15-minute): WEL

CUMENE

Long-term exposure limit (8-hour TWA): WEL 25 ppm 125 mg/m³ Short-term exposure limit (15-minute): WEL 50 ppm 250 mg/m³ Sk

ETHYLENEDIAMINE

Long-term exposure limit (8-hour TWA): WEL 10 ppm 25 mg/m³ Short-term exposure limit (15-minute): WEL

XYLENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m³ Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m³ Sk

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

1-METHOXY-2-PROPANOL (CAS: 107-98-2)

DNEL Industry - Inhalation; Short term local effects: 553.5 mg/m³

Industry - Dermal; Long term systemic effects: 50.6 mg/kg/day Industry - Inhalation; Long term systemic effects: 369 mg/m³

PNEC - Fresh water; 10 mg/l

- marine water; 1 mg/l

- Intermittent release; 100 mg/l

O,O'-Bis(2-aminopropyl)polypropyleneglycol (CAS: 9046-10-0)

DNEL Industry/Professional, Workers - ; Long term systemic effects: 2.5 mg/kg bw/day

PNEC - Fresh water; 0.015 mg/l

HYDROCARBONS, C9, aromatics (CAS: 64742-95-6)

DNEL Professional - Dermal; systemic effects: 25 mg/kg/day

Professional - Inhalation; systemic effects: 150 mg/m³ Consumer - Oral; systemic effects: 11 mg/kg/day Consumer - Inhalation; systemic effects: 32 mg/m³ Consumer - Dermal; systemic effects: 11 mg/kg/day

XYLENE (CAS: 1330-20-7)

DNEL Workers - Inhalation; Long term systemic effects: 77 mg/m³

Workers - Inhalation; Short term systemic effects: 289 mg/m³ Workers - Dermal; Long term systemic effects: 180 mg/kg/day

PNEC - Fresh water; 0.327 mg/l

- marine water; 0.327 mg/l

- STP; 6.58 mg/l

8.2. Exposure controls

NITOFLOR EPU HARDENER

Protective equipment









Appropriate engineering controls

Provide adequate general and local exhaust ventilation. All handling should only take place in well-ventilated areas.

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: Wear tight-fitting, 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. Nitrile rubber. Polyvinyl chloride (PVC).

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures When using do not eat, drink or smoke. 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 wet or contaminated.

Respiratory protection

Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Check that the respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the following cartridge: Gas filter, type A2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid. Colour Amber. Odour Aromatic.

Odour threshold Not available.

pН Not determined.

Melting point Not applicable.

Initial boiling point and range >100°C

Flash point 25°C Closed cup.

Evaporation rate Not available. **Evaporation factor** Not available. Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Not available.

Other flammability Not available. Vapour pressure Not available. Vapour density Not available. 1.034 @ 20°C Relative density **Bulk density** Not applicable.

NITOFLOR EPU HARDENER

Solubility(ies) Insoluble in water.

Partition coefficient Not determined.

Auto-ignition temperature 300°C

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 known.

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:

Amines.

10.2. Chemical stability

Stability Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Flammable/combustible materials.

10.6. Hazardous decomposition products

Hazardous decomposition

Ammonia or amines.

products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No information available.

Acute toxicity - oral

ATE oral (mg/kg) 3,244.06

Acute toxicity - dermal

ATE dermal (mg/kg) 3,186.04

Acute toxicity - inhalation

ATE inhalation (gases ppm) 30,589.58

ATE inhalation (vapours mg/l) 74.77

NITOFLOR EPU HARDENER

ATE inhalation (dusts/mists

mg/l)

10.2

General information Prolonged and repeated contact with solvents over a long period may lead to permanent

health problems.

InhalationMay cause respiratory irritation.IngestionMay be harmful if swallowed.

Skin contact Causes severe skin burns and eye damage. May cause an allergic skin reaction.

Eye contact Causes serious eye damage.

Acute and chronic health

hazards

Suspected of damaging fertility or the unborn child.

Route of exposure Inhalation Ingestion Skin and/or eye contact

Target organs Skin Eyes Respiratory tract

Toxicological information on ingredients.

O,O'-Bis(2-aminopropyl)polypropyleneglycol

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

NONYLPHENOL

Acute toxicity - oral

Acute toxicity oral (LD₅o

٠,-

1,620.0

mg/kg) Species

Rat

ATE oral (mg/kg)

1,620.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,031.0

mg/kg)

Species Rat

TRIETHYLENETETRAMINE

Acute toxicity - oral

Acute toxicity oral (LD₅₀

2,500.0

mg/kg) Species

Rat

ATE oral (mg/kg) 2,500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 550.0

mg/kg)

NITOFLOR EPU HARDENER

Species Rabbit

ATE dermal (mg/kg) 1,100.0

HYDROCARBONS, C9, aromatics

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

3,592.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 3,160.0

mg/kg)

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation

(LC₅₀ vapours mg/l)

6.2

6.2

Species Rat

ATE inhalation (vapours

mg/l)

XYLENE

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

Carcinogenicity

IARC Group 3 Not classifiable as to its carcinogenicity to humans.

SECTION 12: Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

12.1. Toxicity

Toxicity The product contains a substance which may cause long-term adverse effects in the

environment.

Ecological information on ingredients.

O,O'-Bis(2-aminopropyl)polypropyleneglycol

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: >100 mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 15 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

IC₅₀, 72 hours: 135 mg/l, Algae

NONYLPHENOL

Acute aquatic toxicity

NITOFLOR EPU HARDENER

LE(C)₅₀ $0.1 < L(E)C50 \le 1$

M factor (Acute)

Acute toxicity - fish LC₅₀, 96 hours: 0.128 mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 0.0848 mg/l, Daphnia magna

Chronic aquatic toxicity

M factor (Chronic) 1

TRIETHYLENETETRAMINE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 330 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 31.1 mg/L, Daphnia magna

Acute toxicity - aquatic

plants

EC₅o, 72 hours: 20 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms

EC₅₀, 16 hour: 680 mg/l, Bacteria

HYDROCARBONS, C9, aromatics

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, : 9.2 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC₅₀, : 3.2 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, : 2.6 mg/l, Pseudokirchneriella subcapitata

XYLENE

Toxicity Not considered toxic to fish.

12.2. Persistence and degradability

Persistence and degradability The product is not biodegradable.

Ecological information on ingredients.

HYDROCARBONS, C9, aromatics

Biodegradation Water - Degradation (%) 78: 28 days

The substance is readily biodegradable.

XYLENE

Persistence and degradability

Expected to be not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is unlikely.

NITOFLOR EPU HARDENER

Partition coefficient Not determined.

12.4. Mobility in soil

Mobility The product is insoluble in water.

Ecological information on ingredients.

XYLENE

Mobility The product is insoluble in water.

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.

O,O'-Bis(2-aminopropyl)polypropyleneglycol

Results of PBT and vPvB

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

assessment

TRIETHYLENETETRAMINE

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 When handling waste, the safety precautions applying to handling of the product should be

considered.

3470

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. (IMDG)

UN No. (ADR/RID) 3470

UN No. (ICAO) 3470

UN No. (ADN) 3470

14.2. UN proper shipping name

Proper shipping name

PAINT RELATED MATERIAL, CORROSIVE, FLAMMABLE

(ADR/RID)

Proper shipping name (IMDG) PAINT RELATED MATERIAL, CORROSIVE, FLAMMABLE (CONTAİNS NONYLPHENOL,

SOLVENT NAPHTHA)

Proper shipping name (ICAO) PAINT RELATED MATERIAL, CORROSIVE, FLAMMABLE

Proper shipping name (ADN) PAINT RELATED MATERIAL, CORROSIVE, FLAMMABLE

NITOFLOR EPU HARDENER

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID subsidiary risk 3

ADR/RID classification code CF1

ADR/RID label 8

IMDG class 8

IMDG subsidiary risk 3

ICAO class/division 8

ICAO subsidiary risk 3

ADN class 8

ADN subsidiary risk 3

Transport labels





14.4. Packing group

ADR/RID packing group II

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-E, S-C

ADR transport category 2

Emergency Action Code •3W

Hazard Identification Number

(ADR/RID)

Tunnel restriction code (D/E)

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

83

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

NITOFLOR EPU HARDENER

National regulations Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list

of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and

Directive 91/689/EEC on hazardous waste with amendments.

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).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

PBT: Persistent, Bioaccumulative and Toxic substance.

vPvB: Very Persistent and Very Bioaccumulative.

CAS: Chemical Abstracts Service.

EC₅₀: 50% of maximal Effective Concentration.

GHS: Globally Harmonized System.

IATA: International Air Transport Association.

IARC: International Agency for Research on Cancer.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

(EC) No 1907/2006.

General information Only trained personnel should use this material.

Revision comments This is the first issue.

Revision date 05/05/2020

Revision 1

SDS number 28690

Hazard statements in full H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

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. H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or 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. H412 Harmful 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.