

SAFETY DATA SHEET NITODEK FS TOPCOAT RESIN

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

1.1. Product identifier

Product name NITODEK FS TOPCOAT RESIN

Chemical name Polyurethane Resin

Product number 1800730UK9, 1800710UK9, 1800740UK9, 1800750UK9,, 1800700UK9, 1800705UK9,

1800720UK9

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

Identified uses

Reaction Resin

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 Flam. Liq. 2 - H225

Health hazards Skin Irrit. 2 - H315 Skin Sens. 1 - H317 STOT SE 3 - H335

Environmental hazards Not Classified

Human health The product contains a sensitising substance. May cause sensitisation or allergic reactions in

sensitive individuals.

Physicochemical The product is highly flammable. Vapours may form explosive mixtures with air.

2.2. Label elements

Pictogram





Signal word Danger

Hazard statements H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

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

smoking.

P261 Avoid breathing vapour/ spray.

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

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

P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/ container in accordance with national regulations.

Contains 2-ETHYLHEXYL ACRYLATE, METHYL METHACRYLATE

Supplementary precautionary

statements

P240 Ground/ bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge. 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.

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

Rinse skin with water/ shower.

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

P312 Call a POISON CENTER/ doctor if you feel unwell. 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. 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.

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

2-ETHYLHEXYL ACRYLATE 25 - 50%

CAS number: 103-11-7 EC number: 203-080-7

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

Skin Irrit. 2 - H315 R43 Xi;R37/38 Skin Sens. 1 - H317

STOT SE 3 - H335

Aquatic Chronic 3 - H412

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NITODEK FS TOPCOAT RESIN

METHYL METHACRYLATE 10-25%

CAS number: 80-62-6 EC number: 201-297-1 REACH registration number: 01-

2119452498-28-0000

Classification

Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 STOT SE 3 - H335

1,1'-(p-tolylimino)dipropan-2-ol <1%

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

Acute Tox. 3 - H301 T;R25. R52/53.

Aquatic Chronic 3 - H412

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention if any discomfort continues.

Inhalation Move affected person to fresh air at once. Get medical attention.

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

breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce

vomiting. Get medical attention.

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

attention if any discomfort continues.

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. Get medical attention promptly if symptoms

occur 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. Vapours may cause drowsiness and dizziness.

Ingestion Gastrointestinal symptoms, including upset stomach. May cause nausea, headache, dizziness

and intoxication. Narcotic effect.

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

Eye contact Irritating to eyes.

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

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

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 Vapours may be ignited by a spark, a hot surface or an ember. The product is highly

flammable. Vapours are heavier than air and may spread near ground and travel a

considerable distance to a source of ignition and flash back.

Hazardous combustion

products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapours. Oxides of carbon.

5.3. Advice for firefighters

Protective actions during

firefighting

No specific firefighting precautions known.

Special protective equipment

for firefighters

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

clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Follow precautions for safe handling described in this safety data sheet. Take precautionary

measures against static discharges. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the

Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near

spillage. Provide adequate ventilation. Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste

disposal containers and seal securely. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. Collect and

dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Keep away from heat, sparks and open

flame. Static electricity and formation of sparks must be prevented. Provide adequate

ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep container tightly closed. Keep only in the original container. Keep away from heat,

sparks and open flame.

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

METHYL METHACRYLATE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 208 mg/m³ Short-term exposure limit (15-minute): WEL 100 ppm 416 mg/m³

WEL = Workplace Exposure Limit

2-ETHYLHEXYL ACRYLATE (CAS: 103-11-7)

DNEL Workers - Inhalation; Long term local effects: 37.5 mg/m³

Workers - Dermal; Acute local effects: 0.242 mg/cm²

PNEC - Fresh water; 2.72 μg/l

METHYL METHACRYLATE (CAS: 80-62-6)

DNEL Workers - Dermal; Long term systemic effects: 13.67 mg/kg bw/day

Workers - Dermal; Long term local effects: 1.5 mg/cm²

General population - Dermal; Long term systemic effects: 8.2 mg/kg bw/day

General population - Dermal; Long term local effects: 1.5 mg/cm²

PNEC - Fresh water; 0.94 mg/l

1,1'-(p-tolylimino)dipropan-2-ol (CAS: 38668-48-3)

DNEL Professional - Oral; Long term systemic effects: 2 mg/m³

8.2. Exposure controls

Protective equipment









Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield.

Hand protection

Only use chemical-protective gloves with CE-labelling of category III.

Check the permeability prior to each use of the glove.

The glove material has to be impermeable and resistant to the product/ the substance/ the

preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. It is recommended that gloves are made of the following material:

Nitrile rubber.

Other skin and body

protection

Wear rubber apron. Wear rubber footwear.

Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and wash the skin thoroughly with soap and water after work.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Organic vapour filter.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

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NITODEK FS TOPCOAT RESIN

Appearance Liquid.

Colour Range of Colours

Odour Characteristic odour

Odour threshold Not determined.

pH Not applicable.

Melting point Not determined.

Initial boiling point and range 100 °C

Flash point

10C

Evaporation rate Not determined.

Evaporation factor Not determined.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

explosive limits

Not determined.

Other flammability Not determined.

Vapour pressure

38.7 hPa

Vapour density Not determined.

Bulk density 0.99 g/cm3

Solubility(ies) Partially soluble in water.

Partition coefficient Not determined.

Auto-ignition temperature 245°C

Decomposition Temperature Not determined.

Viscosity 250 mPa s @ 20°C

Explosive properties Explosion limits:

Lower: 2.1 Vol % Upper: 12.5 Vol %

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 No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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Possibility of hazardous

reactions

Exothermic polymerisation.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods

of time.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Acids. Amides. Aldehydes. Other halogenated organics.

10.6. Hazardous decomposition products

Hazardous decomposition

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

products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 20,000.0

Inhalation May cause respiratory system irritation. Vapours may cause drowsiness and dizziness.

Ingestion Gastrointestinal symptoms, including upset stomach. May cause nausea, headache, dizziness

and intoxication. Narcotic effect.

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

Eye contact Irritating to eyes.

SECTION 12: Ecological Information

Ecotoxicity Not available.

12.1. Toxicity

Toxicity No data available.

12.2. Persistence and degradability

Persistence and degradability No further relevant information available.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating. No information

available.

Partition coefficient Not determined.

12.4. Mobility in soil

Mobility No data is available on this product.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

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

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Do not empty into drains, sewers or water courses.

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) 1866 UN No. (IMDG) 1866 UN No. (ICAO) 1866 UN No. (ADN) 1866

14.2. UN proper shipping name

Proper shipping name

(ADR/RID)

RESIN SOLUTION

Proper shipping name (IMDG) RESIN SOLUTION

Proper shipping name (ICAO) RESIN SOLUTION

Proper shipping name (ADN) RESIN SOLUTION

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 II

IMDG packing group II

ADN packing group II

ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

EmS F-E, S-E

ADR transport category 2

Emergency Action Code •3YE

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

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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.

Approved Classification and Labelling Guide (Sixth edition) L131.

Respiratory protective equipment at work (HSG53).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information This information is based on our present knowledge. However, this shall not constitute a

guarantee for any specific product features and shall not establish a legally valid contractual

relationship.

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Hazard statements in full H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed. H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

SDS number 24947

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.