



SAFETY DATA SHEET NITOCOTE SN502

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

1.1. Product identifier

Product name NITOCOTE SN502

Product number 1787006UK9

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

Identified uses Hydrophobic treatment for cementitious substrates.

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; 08.30 to 16.00hrs Fri)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified

Health hazards Carc. 2 - H351 STOT SE 3 - H336 Asp. Tox. 1 - H304

Environmental hazards Aquatic Chronic 2 - H411

Classification (67/548/EEC or 1999/45/EC) Xn;R65. Carc. Cat. 3;R40. N;R51/53. R66,R67.

Human health Contains a substance which may be potentially carcinogenic. May irritate eyes and skin. Hydrolyses in water or moist air, releasing methanol and organosilicons.

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

Physicochemical Heating may generate flammable vapours. Vapours may form explosive mixtures with air.

2.2. Label elements

NITOCOTE SN502

Pictogram



Signal word

Danger

Hazard statements

H411 Toxic to aquatic life with long lasting effects.
 H336 May cause drowsiness or dizziness.
 H351 Suspected of causing cancer.
 H304 May be fatal if swallowed and enters airways.

Precautionary statements

P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P331 Do NOT induce vomiting.

Contains

WHITE SPIRIT 140

Supplementary precautionary statements

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P261 Avoid breathing vapour/spray.
 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 CENTER/doctor if you feel unwell.
 P391 Collect spillage.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with national regulations.

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

WHITE SPIRIT 140

60-100%

CAS number: 64742-82-1

EC number: 265-185-4

Classification

Carc. 2 - H351

STOT SE 3 - H336

Asp. Tox. 1 - H304

Aquatic Chronic 2 - H411

TRIMETHOXY (2,4,4-TRIMETHYL PENTYL)SILANE

1-5%

CAS number: 34396-03-7

EC number: 251-995-5

Classification

Flam. Liq. 3 - H226

Aquatic Chronic 3 - H412

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

R10,R52/53.

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METHANOL		<1%
CAS number: 67-56-1		EC number: 200-659-6
Classification Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370		Classification (67/548/EEC or 1999/45/EC) F;R11 T;R23/24/25,R39/23/24/25

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. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion	Do not induce vomiting. Get medical attention immediately. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Give a few small glasses of water or milk to drink. Never give anything by mouth to an unconscious person.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye contact	Remove any contact lenses and open eyelids wide apart. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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	Vapours may cause drowsiness and dizziness. Nausea, vomiting. Headache.
Ingestion	May cause discomfort if swallowed. Nausea, vomiting. Diarrhoea.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	Irritation of eyes and mucous membranes.

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

Notes for the doctor	Treat symptomatically. Hydrolyses in water or moist air, releasing methanol and organosilicons. Product may hydrolyse in gastro-intestinal tract and produce methanol.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with 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	Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO ₂). Aldehydes.
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Hazardous combustion products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting Keep up-wind to avoid fumes. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses.

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Ensure suitable respiratory protection is worn during removal of spillages in confined areas. Take precautionary measures against static discharges. No smoking, sparks, flames or other sources of ignition near spillage. Do not breathe vapour. Avoid contact with eyes. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Avoid or minimise the creation of any environmental contamination. 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. If leakage cannot be stopped, evacuate area. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Storage tanks and other containers must be earthed. Protect electric equipment against sparking in case of risk of explosion. Remove contamination with soap and water or recognised skin cleansing agent. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from heat, sparks and open flame. Keep container tightly closed. Keep away from food, drink and animal feeding stuffs. Avoid contact with oxidising agents. Keep away from oxidising materials, heat and flames. Earth container and transfer equipment to eliminate sparks from static electricity. Keep only in the original container. Store away from the following materials: Acids. Suitable container materials: Mild steel. Stainless steel.

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

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8.1. Control parameters

Occupational exposure limits

WHITE SPIRIT 140

Long-term exposure limit (8-hour TWA): 20 ppm 116 mg/m³

Short-term exposure limit (15-minute): 50 ppm 290 mg/m³

METHANOL

Long-term exposure limit (8-hour TWA): WEL 200 ppm(Sk) 266 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 250 ppm(Sk) 333 mg/m³(Sk)

WEL = Workplace Exposure Limit

WHITE SPIRIT 140 (CAS: 64742-82-1)

DNEL

Workers - Inhalation; systemic effects: 1300 mg/m³/ 15 mins

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. Use explosion-proof general and local exhaust ventilation.

Eye/face protection

Wear chemical splash goggles. (conform EN 166)

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Wear protective gloves made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber). Chemical resistant protective gloves (EN 374). It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

Other skin and body protection

Use barrier creams to prevent skin contact. Wear appropriate clothing to prevent repeated or prolonged skin contact. Provide eyewash station and safety shower.

Hygiene measures

Provide eyewash station and safety shower. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Eating, smoking and water fountains prohibited in immediate work area. Do not smoke in work area.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. In confined or poorly-ventilated spaces, a supplied-air respirator must be worn. Check that the respirator fits tightly and the filter is changed regularly. Use respiratory equipment fitted with gas filter, type ABEK.

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless.
Odour	Mild.
Odour threshold	Not determined.
pH	Not applicable.

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Melting point	Not applicable.
Initial boiling point and range	155 - 190°C @ 1 atm
Flash point	>61°C CC (Closed cup).
Evaporation rate	Not determined.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Upper flammable/explosive limit: 8 Lower flammable/explosive limit: 0.7
Vapour pressure	0.3 kPa @ 20°C
Relative density	0.78 - 0.80 @ 20°C
Bulk density	Not applicable.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not applicable.
Auto-ignition temperature	>230°C
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Volatile organic compound	This product contains a maximum VOC content of 656 g/l.
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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: Siloxanes
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not known.
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10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Water, moisture.
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10.5. Incompatible materials

Materials to avoid	Strong acids. Strong oxidising agents.
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10.6. Hazardous decomposition products

Hazardous decomposition products	None at ambient temperatures. Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Aldehydes. Humidity, water and protic agents may liberate methanol. If this product is heated to >150°C, trace quantities of formaldehyde may be released and adequate ventilation is required.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

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Acute toxicity - oral

ATE oral (mg/kg) 61,846.74

Acute toxicity - dermal

ATE dermal (mg/kg) 185,540.23

Acute toxicity - inhalation

ATE inhalation (gases ppm) 432,927.21

ATE inhalation (vapours mg/l) 1,855.4

ATE inhalation (dusts/mists mg/l) 309.23

Aspiration hazard

Aspiration hazard Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

General information

Avoid inhalation of vapours and spray/mists.

Inhalation

Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion

Risk of severe pulmonary problems in case of accidental aspiration. Product may hydrolyse in gastro-intestinal tract and release methanol. Methanol irritates mucous membranes and has narcotic effects up to coma or death. Possibility of damage to heart, kidney, liver and optic nerve (blindness) over a period of time.

Skin contact

Prolonged contact may cause dryness of the skin. Repeated exposure may cause skin dryness or cracking.

Eye contact

May cause severe eye irritation.

Acute and chronic health hazards

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: Nausea, vomiting. Headache. May cause respiratory system irritation.

Medical symptoms

Skin irritation. Symptoms following overexposure may include the following: Gastrointestinal symptoms, including upset stomach.

SECTION 12: Ecological Information

Ecotoxicity

The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Ecological information on ingredients.

WHITE SPIRIT 140

Ecotoxicity

Toxic to aquatic life. May cause long lasting harmful effects to aquatic life.

12.1. Toxicity

Toxicity

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

12.2. Persistence and degradability

Persistence and degradability

The product is not readily biodegradable. Volatile organic compounds undergo photochemical degradation in the atmosphere.

Ecological information on ingredients.

NITOCOTE SN502

TRIMETHOXY (2,4,4-TRIMETHYL PENTYL)SILANE

Persistence and degradability

The product of hydrolysis (methanol) is readily biodegradable. Silicone content is not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulative, however with short retention period of the order of one week or less.

Partition coefficient Not applicable.

12.4. Mobility in soil

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces. The product is insoluble in water and will spread on the water surface.

12.5. Results of PBT and vPvB assessment

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

Ecological information on ingredients.

TRIMETHOXY (2,4,4-TRIMETHYL PENTYL)SILANE

Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information The packaging must be empty (drop-free when inverted).

Disposal methods Dispose of waste via a licensed waste disposal contractor. Avoid the spillage or runoff entering drains, sewers or watercourses. Confirm disposal procedures with environmental engineer and local regulations.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN No. (ADN) 3082

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS WHITE SPIRIT, METHANOL)

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

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

NITOCOTE SN502

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

14.3. Transport hazard class(es)

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

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
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 (ADR/RID)	90
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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

SECTION 15: Regulatory information

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

National regulations The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).

NITOCOTE SN502

EU legislation	<p>Commission Regulation (EU) No 453/2010 of 20 May 2010.</p> <p>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).</p> <p>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).</p>
Guidance	<p>Workplace Exposure Limits EH40.</p> <p>CHIP for everyone HSG228.</p> <p>Approved Classification and Labelling Guide (Sixth edition) L131.</p> <p>Safety Data Sheets for Substances and Preparations.</p>

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	18/06/2015
Revision	3
SDS number	13086
Risk phrases in full	<p>R10 Flammable.</p> <p>R11 Highly flammable.</p> <p>R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.</p> <p>R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.</p> <p>R40 Limited evidence of a carcinogenic effect.</p> <p>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R65 Harmful: may cause lung damage if swallowed.</p> <p>R66 Repeated exposure may cause skin dryness or cracking.</p> <p>R67 Vapours may cause drowsiness and dizziness.</p>
Hazard statements in full	<p>H225 Highly flammable liquid and vapour.</p> <p>H226 Flammable liquid and vapour.</p> <p>H301 Toxic if swallowed.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H311 Toxic in contact with skin.</p> <p>H331 Toxic if inhaled.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H351 Suspected of causing cancer.</p> <p>H370 Causes damage to organs .</p> <p>H411 Toxic to aquatic life with long lasting effects.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>

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.