

SAFETY DATA SHEET

1: IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Name: **NITOCOTE SN 511**

Application: Monomeric silane treatment.

Company: **Fosroc Limited**

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2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition: monomeric silane.

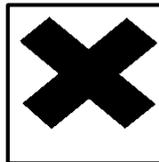
Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
isobutyltriethoxy silane	Xi	R38	Cas No: 17980-47-1	>50

All constituents of this product are listed in EINECS (European Inventory of Existing Commercial Chemical Substances) or ELINCS (European List of New Chemical Substances) or are exempt.

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Irritating to skin.



IRRITANT

4: FIRST AID MEASURES

Eyes: Irrigate immediately with copious quantities of water for several minutes. Obtain medical attention urgently.

Skin: Wash immediately with soap and water or suitable skin cleanser.

Inhalation: Remove from exposure, rest and keep warm and obtain medical attention urgently.

Ingestion: Do NOT induce vomiting. Obtain medical attention. Beware of aspiration if vomiting occurs.

5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, powder, foam or water fog - Do not use water jets.

Special Exposure Hazards: Toxic fumes. For further information see Section 10.

Special Protective Equipment: Self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Immediately issue NO SMOKING and NO NAKED FLAMES warnings. Wear self contained breathing apparatus and protective clothing.

Environmental Precautions: Prevent entry into drains, sewers and water courses.

Decontamination Procedures: Soak up with inert absorbent or contain and remove by best available means. Dispose of as waste.

7: HANDLING AND STORAGE

Handling: Do not use near sources of ignition. Use only in well ventilated areas. Avoid breathing vapours. Avoid skin and eye contact. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage: Store away from sources of ignition. Store out of direct sunlight. Keep containers dry and tightly closed.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:- None assigned.

Engineering Control Measures: Use only in well ventilated areas. Use flameproof equipment and isolate all potential sources of ignition.

Personal Protective Equipment: When mist occurs during spraying operations, wear suitable respiratory protective equipment. Impervious gloves (eg PVC). Safety glasses / Goggles. Plastic apron and overalls. Change contaminated clothing and clean before re-use.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid.
Colour: Colourless.
Odour: Alcoholic.
pH(concentrate): Not applicable (non-aqueous)
Boiling Point/Range (°C): 186
Melting Point/Range (°C): -65
Flash Point (closed, °C): 63
Autoflammability (°C): ~230
Explosive Properties (%): Not determined.
Oxidising Properties: Not determined.
Vapour Pressure (kPa at 20°C): 0.07
Relative Density (at 20°C): 0.9
Water Solubility: Insoluble.
Partition Coefficient (n-octanol/water): 2.033

10: STABILITY AND REACTIVITY

Stability: Stable.
Conditions to Avoid: Any source of ignition.
Materials to Avoid: Strong oxidising agents. Strong acids. Contamination by water.
Hazardous Decomposition Products: Ethanol is produced during hydrolysis.
Thermal decomposition:- Oxides of carbon. Irritant fumes.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on a knowledge of the toxicity of the product's components.

Oral LD50, rat >5000mg/kg

Dermal LD50, rat/rabbit >2000mg/kg

Health Effects

On Eyes: Irritating and may injure eye tissue if not removed promptly. Vapour may cause irritation.

On Skin: Irritation. May defat the skin.

By Inhalation: Mist and vapours may cause irritation to nose and respiratory tract. High concentrations of vapour can cause narcosis and asphyxiation.

By Ingestion: May cause nausea, vomiting and diarrhoea.
Aspiration of liquid during ingestion or from vomiting may cause severe chemical pneumonitis.

Chronic: Repeated and prolonged skin contact may lead to skin disorders.

12: ECOLOGICAL INFORMATION

Environmental Assessment: May cause significant ecological damage in aquatic systems and must be used and disposed of in accordance with the recommendations made in this safety data sheet.

Mobility: Mobile liquid. Insoluble in water.

Persistence and Degradability: Not readily biodegradable.

Bioaccumulative Potential: Not expected to be bioaccumulative.

Ecotoxicity: Moderately ecotoxic to marine organisms.

13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.

Unused Product: Dispose of through an authorised waste contractor to a licensed site.

Used/Contaminated Product: Dispose of through an authorised waste contractor to a licensed site. May be incinerated. Do not empty into drains, sewers or water courses.

Packaging: Must be disposed of through an authorised waste contractor.
May be steam cleaned and recycled.
Contains volatile solvent, ventilate before steam cleaning (explosion risk).
Contains flammable residues, do not crush or incinerate.

14: TRANSPORT INFORMATION

UN Number: 1993

IMO: Class: 3.3 Packing Group: III Marine Pollutant: No

IATA/ICAO: Class: 3 Packing Group: III

ADR: Class: 3 Item: 32(c)

Transport Name: Flammable liquids, nos (alkylalkoxysilane)

Hazchem/Kemler Code: 3Y / 30

15: REGULATORY INFORMATION

Hazard Label Data:-

UN Number: 1993

Symbol(s): Xi

Risk Phrases: Irritating to skin

Safety Phrases: Do not breathe vapour/spray.
Wear suitable gloves and eye/face protection.
In case of insufficient ventilation, wear suitable respiratory equipment.

EC Directives: Dangerous Preparations Directive, 88/379/EEC.
Safety Data Sheets Directive, 91/155/EEC.
Dangerous Substances Directive, 67/548/EEC and adaptations.

Statutory Instruments: Health & Safety at Work, etc. Act 1974.
Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regs. 1996 (SI 1092).
Control of Substances Hazardous to Health Regs. 1994 (SI 3246).
Environmental Protection Act 1990.

Codes of Practice: Waste Management. The Duty of Care.

Guidance Notes: Storage of packaged dangerous substances [HS(G)71].

The above publications are available from HMSO

16: OTHER INFORMATION

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from Fosroc Ltd.

If this product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

Further copies of this Safety Data Sheet may be obtained from Fosroc Limited.

Date Printed: 05/01/1999

SDS Reference: 1335/1 SN511

REVISION

Supersedes issue no: 01 dated: 26.04.94

Sections updated/revised - no(s): 1 , 3, 14, 15.