



SAFETY DATA SHEET

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

Product Name: **NITOFLOR LITHURIN**

Application: Floor hardener and dust-proofer.

Company: **Fosroc Limited**

Address: Coleshill Road, Tamworth, Staffordshire. B78 3TL

Telephone: 01827 262222 Out of Hours: 01827 265279 Fax: 01827 262444

2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition: magnesium fluorosilicate, surfactant.

Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
magnesium fluorosilicate	T	R25	Cas No: 16949-65-8 Cas No: Cas No: Cas No: Cas No:	>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.

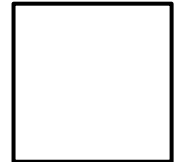
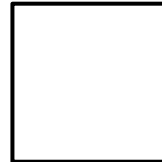
Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

R25: Toxic if swallowed.



TOXIC



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. Obtain medical attention if irritation persists.

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

Ingestion: Obtain medical attention urgently. Wash out mouth with water. Ensure mouth wash is not swallowed. If product has been swallowed, immediately drink large mouthfuls of calcium gluconate solution (3-5%).

5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, powder, foam or water.

Special Exposure Hazards: Toxic fumes. Fluorine compounds

Special Protective Equipment: Self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear rubber boots in addition to the recommended protective clothing.

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

Decontamination Procedures: Avoid the creation of dust in atmosphere. Gather into containers. Prior consent must be obtained from the local Water Company if discharged to sewer.

7: HANDLING AND STORAGE

Handling: Maintain good standards of personal hygiene. Avoid breathing dust. Avoid skin and eye contact. Do not eat, drink or smoke whilst using this product. Wash hands thoroughly after handling this product.

Storage: Store in cool, dry area. Never leave a container unsealed. Store away from acids. Keep away from foodstuffs and food containers.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:-

Substance	8 Hour TWA	STEL	Source/Other Information
Magnesium Fluorosilicate	2.5mg.m ⁻³		MDHS 35/2

Engineering Control Measures: During mixing operation - Where mechanical methods are inadequate or impractical, appropriate personal protective equipment must be used. Use only in well ventilated areas.

Personal Protective Equipment: In case of insufficient ventilation wear suitable respiratory equipment. (Class 1 respirator CE marked to EN 140, with EN 141/143 Type A1 filter.) A high standard of personal hygiene is essential. Do not eat, drink or smoke whilst using this product. Avoid skin and eye contact. Impervious gloves (eg PVC). Safety glasses (Conforming to EN 166) / Goggles (Conforming to EN 166). Wear impervious, chemical resistant boots. Change contaminated clothing immediately and clean before re-use. Wash hands thoroughly after handling this product.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder.

Colour: White.

Odour: Odourless.

pH(concentrate):

pH(working dilution): 2.7

Boiling Point/Range (°C):

Melting Point/Range (°C): 120 (decomposes)

Flash Point (closed, °C): None.

Autoflammability (°C): Not applicable.

Viscosity (at 20°C):

Explosive Properties (%): Not applicable.

Oxidising Properties: Not determined.

Vapour Pressure (kPa at 20°C):

Relative Density (at 20°C): 1.78

Water Solubility: Soluble.

Fat Solubility:

Partition Coefficient (n-octanol/water):

Other data:

10: STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid: None known.
Materials to Avoid: Strong acids. Strong alkalis. Aluminium, zinc and magnesium alloys.
Hazardous Decomposition Products: May liberate hydrogen gas from contact with some metals. May also liberate hydrogen fluoride or silicon tetrafluoride.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on a knowledge of the toxicity of the product's components.
Oral LD50, rat 156mg/kg.

Health Effects

On Eyes: Irritating and may injure eye tissue if not removed promptly.
On Skin: Moderately irritating.
By Inhalation: Dust - Irritating to respiratory system.
By Ingestion: Toxic if swallowed. May cause nausea, vomiting and diarrhoea. May cause burning sensation in the mouth and throat.
Chronic: Repeated and prolonged skin contact may lead to skin disorders.
Other:

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: Soluble in water.
Persistence and Degradability: Not readily biodegradable.
Bioaccumulative Potential: Not determined.
Ecotoxicity: Ecotoxic to fish/daphnia/algae.

13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.

Unused Product: Classified as a special waste. Dispose of through an authorised waste contractor to a licensed site.
Used/Contaminated Product: Do not empty into drains, sewers or water courses. For further information see Section 16.
Packaging: Must be disposed of through an authorised waste contractor.

14: TRANSPORT INFORMATION

UN Number: 2853
IMO: Class: 6.1 Packing Group: III Marine Pollutant: Yes
IATA/ICAO: Class: 6.1 Packing Group: III
ADR: Class: 6.1 Item: 64 (c)
Transport Name: Fluorosilicates (nos). (magnesium fluorosilicate)
Hazchem/Kemler Code: 2Z / 60

15: REGULATORY INFORMATION

Hazard Label Data:-

Named Ingredients: magnesium fluorosilicate
UN Number: 2853
Symbol(s): T
Risk Phrases: R25: Toxic if swallowed.

Safety Phrases: S1/2: Keep locked and out of reach of children
S13: Keep away from food, drink and animal feeding stuffs.
S24/25: Avoid contact with skin and eyes.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S02: Keep out of reach of children.

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

Statutory Instruments: Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regs. 1996 (SI 1092).
Control of Substances Hazardous to Health Regs. 1999 (SI 3246).
Health & Safety at Work, etc. Act 1974.
The Special Waste Regulations 1996 (SI 972).

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

Guidance Notes:

The above publications are available from HMSO

16: OTHER INFORMATION

Procedure for the Disposal of Lithurin Washings.

Following the application Nitoflor Lithurin all areas should be wet vacuumed to remove all residual solution. The areas should then be rinsed and re-vacuumed to remove all traces of the Nitoflor Lithurin solution.

All washings should then be treated with builders lime, added to excess, to attain a pH 10.0. This solution should then be thoroughly stirred and left to stand for 24 hours. At this point the pH should be rechecked and must be alkaline (pH 7 or above).

The resulting precipitate of calcium fluorosilicate and solution may then be disposed of through an authorised waste disposal contractor.

All health and safety precautions must be observed during the above operation, including the use of suitable gloves, goggles and protective overalls.

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.

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SDS Reference: 0042/7 NFLITH

REVISION

Supersedes issue no: 03 dated: 04.06.96

Sections updated/revised - no(s): 1 2,3,8,11,14,15.