

Section 1 – Identification of the Material and Supplier

Ensystem Australasia Pty Ltd
Unit 3 The Junction Estate
4 – 6 Junction Street
AUBURN NSW 2144
13 35 36 (All hours)

Chemical nature: Cementitious powder.

Trade Name: **NOVITHOR™ TPC Powder**

Product Use: Component in a physical termite protection system. Part of a two-part mix used to form NOVITHOR Cementitious Parge (with NOVITHOR TPC Liquid).

Creation Date: **July, 2011**

This version issued: **October 2016** and is valid for 5 years from this date.

Section 2 - Hazards Identification

Statement of Hazardous Nature

This product is NOT classified as hazardous according to the criteria of NOHSC Australia.

NOT Dangerous Goods according to the Australian Dangerous Goods (ADG) Code.

SUSDP Classification: Not classified.

ADG Classification: None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.



GHS Signal word: **CORROSIVE**

HAZARD

- R41: Risk of serious damage to eyes.
- H302: Harmful if swallowed.
- H312: Harmful in contact with skin
- H320: Causes eye irritation
- H335: May cause respiratory irritation

PREVENTION

- P102: Keep out of reach of children.
- P260: Do not breathe dust/fumes/gas/mist/vapours/spray.
- P262: Do not get in eyes, on skin, or on clothing.
- P264: Wash contacted areas thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P273: Avoid release to the environment.
- P280: Wear protective gloves, protective clothing and eye or face protection

RESPONSE

- P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P271: Use only outdoors or in a well-ventilated area.

STORAGE

- P405: Store locked up.
- P402+P404: Store in a dry place. Store in a closed container.

DISPOSAL

P501: Dispose of contents/ containers in accordance with local & national government regulations. Advise flammable nature. Empty containers may contain flammable residues.

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Emergency Overview

Major Health Hazards: Xi –irritant – Silica, Crystalline Quartz
Physical Description & colour: Grey powder.
Odour: Negligible.

Potential Health Effects

Inhalation:

Short term exposure: The dust is harmful and irritating to the upper respiratory tract and lungs. The material presents a hazard from repeated exposures over long periods.

Skin Contact:

Short term exposure: Slight irritant and may cause dermatitis. In the presence of moisture such as perspiration it can dry skin and cause alkali burns.

Eye Contact:

Short term exposure: Dust is abrasive and irritating to the eyes and may be capable of causing corneal scarring.

Ingestion:

Short term exposure: Can result in irritation and burns to mouth and stomach.

See section 11 for Chronic exposure studies.

Carcinogen Status:

NOHSC: No significant ingredient is classified as carcinogenic by NOHSC.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

Section 3 - Composition/Information On Ingredients

Ingredients	CAS No	Conc.
Portland Cement	65997-15-1	30-50%
Graded Sand	14808-60-7	40-60%
Other non-hazardous ingredients	Various	10-30%

Section 4 - First Aid Measures

General Information:

You should contact a doctor, hospital or call The Poisons Information Centre if you feel that you may have been poisoned by this product. The number is 13 11 26 from anywhere in Australia and is available at all times.

Inhalation: Avoid breathing dust. Use in well ventilated areas. If inhalation does occur remove from exposure and treat symptomatically.

Skin Contact: If irritation does occur, flush with lukewarm, gently flowing water and soap if available for 5 minutes. If in doubt obtain medical advice.

Eye Contact: While holding eyes open, gently flood with plenty of water for 15 minutes. Seek medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Immediately give a glass of water and contact a Poisons Information Centre, or call a doctor if symptoms of poisoning develop.

Section 5 – Fire-Fighting Measures

Fire and Explosion Hazards: There is no risk of an explosion or fire from this product under normal circumstances

Extinguishing Media: Not normally combustible. Possible release of CO₂ above 600° C.

Fire Fighting: Not applicable.

Section 6 - Accidental Release Measures

Accidental Release: Spills should be carefully swept up and then shovelled into appropriately labelled containers. Do not allow to enter into drains, sewers or waterways.

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Section 7 - Handling and Storage

Handling: Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. Avoid all personal contact, including inhalation. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. When handling, DO NOT eat, drink or smoke. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use.

Storage: Keep containers locked away. Store under dry, cool conditions. Keep out of reach of children. Keep containers securely sealed when not in use. Avoid physical damage to containers.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Ventilation:	Ensure adequate ventilation.
Eye Protection:	Face shield or protective glasses recommended when product is being used.
Skin Protection:	You should avoid contact even with mild skin irritants. Therefore, you should wear suitable gloves and facial protection when handling this product. See below for suitable material types. Wash hands after use.
Respirator:	Wear suitable respiratory protection when mixing.
Exposure Standards:	Silica, Crystalline – Quartz (14808-60-7) ES-TWA: 0.1 mg/m ³ (Silica Quartz, respirable, NOHSC) ES-TWA#: 0.1 mg/m ³ (QLD); 0.15 mg/m ³ (NSW) NZ WES-TWA: 0.2 mg/m ³ Portland Cement (65997-15-1) ES-TWA: 10 mg/m ³ Portland Cement ES-TWA: 0.05 mg/m ³ Chromium (VI) Compounds (contaminant) NZ WES-TWA: 10mg/m ³ Hexavalent Chromium (Contaminant) ES-TWA: 0.05 mg/m ³

Section 9 - Physical and Chemical Properties

Physical Description & colour:	Grey powder.
Odour:	Negligible.
Boiling Point:	Not applicable.
Freezing Point:	Not applicable.
Vapour Pressure:	Not applicable.
Water Solubility:	Not soluble in water.
pH:	Normally about pH 11-13 (aqueous solution).
Specific gravity:	Approx. 2.20 g/cm ³
Melting point:	> 1200°C

Section 10 - Stability and Reactivity

Reactivity:	This product is unlikely to react or decompose under normal storage conditions.
Conditions to Avoid:	Heat, store out of direct sunlight, open flames or other sources of ignition.
Incompatibilities:	Strong oxidising agents.
Fire Decomposition:	Thermal decomposition and combustion produce noxious fumes containing oxides of carbon.
Polymerisation:	This product is unlikely to undergo polymerisation processes.

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Section 11 - Toxicological Information

Summary: No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and over exposure occurs are:

- Inhalation:** Over exposure may result in mucous membrane irritation & bronchitis. Hexavalent chromium is reported to cause respiratory sensitisation, however due to the trace amount present, a hazard is not anticipated under normal conditions of use.
- Eyes:** Severe irritation upon contact with powder/ dust. Over exposure may result in pain, redness, corneal burns and ulceration with possible permanent damage.
- Skin contact:** Slightly corrosive. Prolonged and repeated contact with powder or wetted form may result in skin rash, dermatitis and sensitisation.
- Ingestion:** Ingestion may result in burns to the mouth and throat, with vomiting and abdominal pain. Due to the product form, ingestion is not considered a likely exposure route.

Long Term Effects: Repeated exposure to the dust may result in increased nasal and respiratory secretions and coughing. Inflammation of lining tissue of the respiratory system may follow repeated exposure to high levels of dust with increased risk of bronchitis and pneumonia. Pre-existing upper respiratory and lung diseases including asthma and bronchitis may be aggravated. The product contains a proportion of respirable free crystalline silica in the quartz component. Long term occupational over-exposure or prolonged breathing-in (or inhalation) of crystalline silica dust at levels above the NES carries the risk of causing serious and irreversible lung disease, including bronchitis, and silicosis (scarring of the lungs), including acute and/or accelerated silicosis. It may also increase the risk of other irreversible and serious disorders including scleroderma (a disease affecting the skin, joints, blood vessels and internal organs) and other auto-immune disorders. Inhalation of dust, including crystalline silica dust, is considered by medical authorities to increase the risk of lung disease due to tobacco smoking. The product contains a proportion of respirable free crystalline silica in the quartz component. Crystalline silica (inhaled in the form of quartz or crystallite from occupational sources) has been classified by The International Agency for Research on Cancer (IARC) as carcinogenic to humans (Group 1). However, (in the view of CCAA) the research on this is inconclusive and ASCC/NOHSC has not classified crystalline silica as a carcinogen. Current research indicates no excess risk of lung cancer or other cancers from using these products.

Section 12 - Ecological Information

Do not allow product to enter drains, waterways or sewers.

Section 13 - Disposal Considerations

Disposal: Disposal of spilled or waste material must be carried out in accordance with the relevant local and national government regulations. Avoid dust generation.

Section 14 - Transport Information

ADG Code: This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are to be found in the public AICS Database.

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Section 16 - Other Information

This MSDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS	Australian Inventory of Chemical Substances
CAS number	Chemical Abstracts Service Registry Number
DG Class	Dangerous Goods Class
EPG number	Environmental Protection Guidelines
Hazchem Number	Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters
IARC	International Agency for Research on Cancer
IERG number	Illinois Environmental Regulatory Group
NOHSC	National Occupational Health and Safety Commission
NOS	Not otherwise specified
R-Phrase	Risk Phrase
SUSDP	Standard for the Uniform Scheduling of Drugs & Poisons
UN Number	United Nations Number

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user must review this MSDS in the context of how the product will be handled and used in the workplace.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Ensystem so we can attempt to obtain additional information from our suppliers

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Please read all labels carefully before using product.

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