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MATERIAL SAFETY DATA SHEET

MSDS 571

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1. Product and Company Identification

- 1.1 PRODUCT NAME:** PENETRON
- 1.2 USE OF PRODUCT** A surface applied material which waterproofs and protects concrete in-depth.
- 1.3 SUPPLIER:** Equus Industries Ltd
Sheffield Street
Riverlands Industrial Estate
Blenheim, Marlborough, New Zealand
Telephone: +64 3 578 0214
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- 1.4 EMERGENCY CONTACT:** **National Poison Centre**
Telephone: 0800 764 766

Information about Safety Data Sheet: Telephone: +64 3 578 0214 8:00am – 6:00pm Mon – Fri

2. Hazards Identification

2.1 Classification:
This product is non-hazardous and a non-dangerous good.

2.2 Risk/Safety Phrases:
R38,41
S2,22,24,25,26,37,39

The full text of each R & S phrases are listed in Section 16.

3. Composition/Information on Ingredients

3.1 Chemical Characterization (Preparation):
Portland cement and special treated quartz. Compounds and derivatives or inorganic acids.

3.2 Hazardous Ingredients:

CAS NO.	COMPONENT	CONCENTRATION %	CLASSIFICATION
65997-15-1	Cement	50-80%	R38/41



- 3.3** Only ingredients, additives and impurities which are classified and contribute to the classification of the product are included in this section.

4. First Aid Measures

- 4.1 After Inhalation:**
Remove person to fresh air. In case of irritation of respiratory system seek medical advice.
- 4.2 After Skin Contact:**
Wash immediately with plenty of water. If irritation persists, seek medical advice.
- 4.3 After Eye Contact:**
Rinse immediately with plenty of water with eyelids open wide, for at least 15 minutes and seek medical attention urgently.
- 4.4 After Ingestion:**
Drink plenty of water and seek medical attention.

5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Media:**
Use extinguishing media appropriate for surrounding fire.
- 5.2 Protective Equipment:**
Wear self contained breathing apparatus and protective suit.
- 5.3 Specific Hazards:**
An alkaline solution is produced when product comes in contact with extinguishing water, which can cause irritation. Avoid extinguishing water entering into water courses, drains or ground water.
- 5.4 Combustion Products:**
Not applicable.

6. Accidental Release Measures

- 6.1 Preliminary Action and Precautions:**
- 6.1.1** Use personal protective equipment.
- 6.1.2** Avoid contact with skin and eyes.
- 6.1.3** Avoid dust formation. Do not breathe dust deposit.
- 6.1.4** Clean up spills with a broom or preferably vacuum.
- 6.1.5** Place product in suitable container for recycling or disposal.
- 6.1.6** Prevent entry of product into sewers, storm water drains and open bodies of water.



7. Handling and Storage

7.1 Handling:

- 7.1.1 Keep out of the reach of children.
- 7.1.2 Avoid dust formation and dust deposit.
- 7.1.3 Avoid contact with skin, eyes and inhaling dust.
- 7.1.5 Wear personal protective equipment.

7.2 Storage:

- 7.2.1 Store in original packaging and protect from humidity.
- 7.2.2 Keep containers tightly closed at all times.
- 7.2.3 Store away from food, drink and animal feedstuff.
- 7.2.4 Store away from acids.

8. Exposure Controls and Personal Protection Equipment

8.1 Exposure Limits:

Portland Cement	Cas – 65997-15-1	Inhalable dust: OEL/TWA: 10 mg/m ³
		Respirable dust: OEL/TWA: 4 mg/m ³

8.2 Exposure Controls:

8.2.1 Exposure Controls in the Work Place:

Avoid dust formation. Avoid creating dust. Provide appropriate ventilation or local exhaust ventilation. If it is not possible to reduce exposure levels to below exposure limit values with ventilation use appropriate respirator according to national regulations.

8.2.2 Personal Protection Equipment

Respiratory Protection – Normally wear a good quality dust mask or an appropriate, properly fitted NIOSH/MSHA, approved respirator when airborne contaminant level(s) are expected to exceed exposure limits indicated on the MSDS.

Hand Protection – Use suitable impervious nitrile or neoprene gloves and protective apparel to reduce exposure.

Eye Protection – Wear tightly fitting safety glasses.

Skin/Body Protection - Wear suitable protective clothing to prevent skin contact.

8.2.3 General Protective/Hygiene Measures:

Do not eat or drink during work.
No smoking.
Wash hands before breaks and after work.
Use appropriate skin protection products.



9. Physical and Chemical Properties

9.1 General Information:	
Physical State/Form	Powder
Colour	Grey
Odour	Odourless
pH	11 – 13.5
Flash Point	Not applicable
Water Solubility/Miscibility	Up to 1.5 g/l (20°C)
Boiling Point/range	Not applicable
Lower Explosion Limit	Not applicable
Upper Explosion Limit	Not applicable
Autoignition Temperature	Not applicable
Vapour Pressure	Not applicable
Bulk Density	approx. 1.25 kg/l

10. Stability and Reaction

- 10.1 General Information:**
This material is stable when properly handled and stored. No hazardous reactions are known.
- 10.2 Conditions to Avoid:**
Avoid contact with humidity.
- 10.3 Material to Avoid:**
Acids.
- 10.4 Hazardous Decomposition Products:**
None expected when material properly handled and stored. For thermal decomposition see Section 5.

11. Toxicological Information

- 11.1 General Information:**
No specific data is available for this material.
- 11.2 Skin Contact:**
Irritating to the skin. Prolonged or repeated contact may cause skin disorders/ chemical burns.
- 11.3 Eye Contact:**
Risk or serious damage to the eyes.
- 11.4 Ingestion:**
May cause gastrointestinal discomfort. Symptoms may include nausea, vomiting, lethargy or diarrhoea.
- 11.5 Inhalation:**
May cause moderate to severe irritation to the respiratory system, depending upon length of exposure.



12. Ecological Information

12.1 Environment Protection:

Prevent from entering sewers, drains and waterways.

12.2 Ecotoxicity:

Eco-toxicological effect only possible in case of unintended release of big quantities in contact with water due to increased pH value. Product is slightly water pollutant (self assessment).

12.3 Persistence and degradability:

No data available.

12.4 Bioaccumulative Potential:

No data available.

13. Disposal Consideration

13.1 Material

Non contaminated material can be re-used. Hardens after contact with water, hardened material can be disposed of as construction and demolition waste – concrete. Dispose of at a permitted facility in accordance with local/national regulation.

13.2 Contaminated Packaging:

Contaminated packaging must be emptied of all residues and can be recycled following appropriate cleaning. Avoid dust formation. Uncleaned packaging must be disposed of in accordance with local regulations.

14. Transport Information

14.1 Land Transport:

Road: Not regulated (not dangerous for transport)

Rail: Not regulated (not dangerous for transport)

14.2 Sea Transport: Not regulated (not dangerous for transport)

14.3 Air Transport: Not regulated (not dangerous for transport)

14.4 Postal and Courier Service: This product can be transported by courier.

15. Regulatory Information

This product is hazardous.



16. Other Information

16.1 Full Text of R-Phrases Contained in Section 2:

- R38** Irritating to skin
- R41** Risk of serious damage to eyes

16.2 Full Text of S-Phrases Contained in Section 2:

- S2** Keep out of the reach of children
- S22** Do not breathe dust
- S24/25** Avoid contact with skin and eyes
- S26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S37/39** Wear suitable gloves and eye/face protection

16.3 The information contained in this Data Sheet relates only to the specific material identified. Equus Industries Ltd believes the information to be accurate and reliable as at the date of this Data Sheet. No Warranty, Guarantee or representation is expressed or implied by the Company as to the absolute correctness or completeness of any representation contained in this Data and assumes no legal responsibility in connection therewith. It can not be assumed that all acceptable safety measures are contained in this Data Sheet, or that additional measures may not be required under particular or exceptional circumstances or conditions.