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MATERIAL SAFETY DATA SHEET

MSDS 491

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1. Product and Company Identification

- 1.1 PRODUCT NAME:** EUCO DIAMOND HARD
- 1.2 USE OF PRODUCT** Liquid densifier and sealer for concrete surfaces.
- 1.3 SUPPLIER:** Equus Industries Ltd
Sheffield Street
Riverlands Industrial Estate
Blenheim, Marlborough, New Zealand
Telephone: +64 3 578 0214
Fax: +64 3 578 0919
- 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:**
Dangerous Goods – classification according to New Zealand Dangerous Goods Code.
- 2.2 Risk & Safety Phrases:**
R22,35,36,38
S1/2,26,36,37,39,45

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

3. Composition/Information on Ingredients

- 3.1 Chemical Characterization (Preparation):**
This product is a preparation.

3.2 Hazardous Ingredients:

CAS NO.	COMPONENT	CONCENTRATION %	CLASSIFICATION
1344-09-8	Sodium silicate	10-30%	R36/38
31795-24-1	Potassium methylsiliconate	10-30%	R22/35



- 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

Get medical attention for any significant over exposure.

- 4.1 After Inhalation:**
Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel. Avoid further over exposure. Seek medical attention immediately.
- 4.2 After Skin Contact:**
Wash area of contact thoroughly using soap and water. If irritation, rash or other disorders develop, seek medical attention immediately.
- 4.3 After Eye Contact:**
Flush with water for at least 15 minutes while holding eye lids apart. Get medical attention immediately.
- 4.4 After Ingestion:**
Call doctor immediately. Do not induce vomiting unless advised by a doctor.
- 4.5 Advice to Doctor:**
Treat symptomatically.

5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Media:**
If water fog is ineffective, use carbon dioxide, dry chemical or foam.
- 5.2 Protective Equipment:**
Use accepted fire fighting techniques. Wear full fire fighting protective clothing, including self contained breathing apparatus (SCBA).
- 5.3 Specific Hazards:**
Product may ignite if heated in excess of its flash point. Vapours may travel to sources of ignition and flashback. Vapour concentrations in enclosed areas may ignite explosively. Empty containers may contain ignitable vapours.
- 5.4 Combustion Products:**
Carbon monoxide and carbon dioxide can form. Smoke, fumes. Nitrogen oxides can form.

6. Accidental Release Measures

- 6.1 Preliminary Action and Precautions:**
- 6.1.1** Eliminate every possible source of ignition immediately.
- 6.1.2** Evacuate all personnel immediately and ventilate area.



- 6.1.3 Avoid breathing vapour and contact with skin, eyes and clothing.
- 6.1.4 Wear appropriate personal protective equipment.
- 6.1.5 Shut off leaks if possible without risk.
- 6.1.6 Dike in the spilled product as much as possible with inert material.
- 6.1.7 Prevent entry of product into sewers, storm water drains and open bodies of water.
- 6.1.8 Collect the spillage in suitable, closable containers for re-use or disposal.
- 6.1.9 Clean up all spills as soon as possible, using an inert absorbent material and dispose of as hazardous waste.

7. Handling and Storage

7.1 Handling:

- 7.1.1 Prevent inhalation of vapour, ingestion and contact with skin, eyes and clothing.
- 7.1.2 Keep container closed when not in use. Precautions also apply to emptied containers.
- 7.1.3 Change soiled work clothes frequently.
- 7.1.4 Clean hands thoroughly after handling.
- 7.1.5 Do not smoke, weld, generate sparks, or use flame near container.
- 7.1.6 Do not use in confined or poorly ventilated areas.

7.2 Storage:

- 7.2.1 Store under dry warehouse conditions.
- 7.2.2 Store away from sources of ignition, (i.e. sparks, open flames, heat etc.)
- 7.2.3 Store away from acids and metals.
- 7.2.4 Keep containers tightly closed at all times.

8. Exposure Controls and Personal Protection Equipment

8.1 Exposure Limits:

No known components with exposure limits.

8.2 Exposure Controls:

8.2.1 Exposure Controls in the Work Place:

Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use local exhaust when the general ventilation is inadequate.



8.2.2 Personal Protection Equipment

- Respiratory Protection – Wear appropriate, properly fitted NIOSH/MSHA, approved respirator with appropriate cartridge when the vapour concentration is 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 appropriate eye protection. Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.
- Skin/Body Protection- Prevent contact with shoes and clothing. Use rubber apron and overshoes.

9. Physical and Chemical Properties

9.1 General Information:	
Physical State/Form	Liquid
Colour	Clear
Odour	None
pH	13 – 14
Vapour Pressure	Not available
Vapour Density	Heavier than air
Melting Point/Range	Not available
Freezing Point	Not available
Boiling Point/Range	100°C
Water Solubility	Negligible
Evaporation Rate	Not available
Specific Gravity	1.219
% Volatile Weight	66%
Flash Point	Not available
Lower Explosion Limit	Not available
Upper Explosion Limit	Not available
Autoignition Temperature	Not available

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:**
Sources of ignition.
- 10.3 Material to Avoid:**
Acids and metals.
- 10.4 Hazardous Decomposition Products:**
None expected when material properly handled and stored. For thermal decomposition see Section 5.



11. Toxicological Information

11.1 Emergency Overview:

May cause slight irritation to the respiratory system. Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel. Get medical attention immediately.

11.2 Acute toxicity:

Sodium Silicate:

Oral LD 50: (Rat) 1,100 – 1,600 mg/kg

11.3 Skin Contact:

May cause itching, reddening, inflammation. May cause severe burns, blistering and skin damage. May cause sensitization resulting in irritation, itching and redness. May cause a rash.

11.4 Eye Contact:

Vapours or liquid may cause tearing, blurred vision, severe irritation and possible chemical burns.

11.5 Ingestion:

May cause gastrointestinal irritation, nausea and vomiting. May cause chemical burns to stomach, mouth, nose and throat.

11.6 Inhalation:

May cause slight irritation to the respiratory system.

11.7 Aggravated Medical Conditions:

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

11.8 Chronic effects:

Fillers are encapsulated and not expected to be released from product under normal conditions or use.

11.9 Target Organs:

Skin, eye, lung.

12. Ecological Information

12.1 Environment Protection:

Prevent product from entering drains, sewers and waterways.

12.2 Ecotoxicity:

Data not available.

12.3 Persistence and degradability:

Data not available.

12.4 Bioaccumulative Potential:

Data not available.



13. Disposal Consideration

13.1 Material

Dispose of according to regulation by incineration in a special waste incinerator or landfill at a permitted facility in accordance with local/national regulations.

14. Transport Information

14.1 Land Transport:

Road: Caustic alkali liquid, N.O.S (Class 8, PG III)

Rail: Caustic alkali liquid, N.O.S (Class 8, PG III)

14.2 Sea Transport: Caustic alkali liquid, N.O.S (Class 8, PG III)

14.3 Air Transport: Caustic alkali liquid, N.O.S (Class 8, PG III)

14.4 Postal and Courier Service: This product can not be transported by courier.

15. Regulatory Information

This product is hazardous and dangerous.

16. Other Information

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

R22 Harmful if swallowed.
R35 Causes severe burns.
R36/38 Irritating to the eyes and skin.

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

S1/2 Keep locked up and out of the reach of children
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection
S45 In case of accident or if you feel unwell, seek medical advice immediately.

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.