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MATERIAL SAFETY DATA SHEET

MSDS 631

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1. Product and Company Identification

- 1.1 PRODUCT NAME:** TREMCO FYRETHANE
- 1.2 USE OF PRODUCT** Fire resisting mastic sealant for control joints in building masonry.
- 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:**
Dangerous Goods – classification according to New Zealand Dangerous Goods Code.
- 2.2 Risk & Safety Phrases:**
R22,36,37,38,42
S24,25,36,37,39

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
9016-45-9	Nonyl phenol, ethoxylated	1.0-30%	R36/37/38
1336-21-6	Ammonium hydroxide	<1.0%	R36/37/38
64742-95-6	Aromatic petroleum solvent	<1.0%	R10/20/21/36/37/38/ 51/53/65
64742-88-7	Aliphatic petroleum solvent	<1.0%	R10/38/52/53/65

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:

Remove person to fresh air. Avoid further over exposure. If symptoms persist seek medical attention.

4.2 After Skin Contact:

Remove any contaminated clothing and flush area with water. Use soap and water or proprietary hand cleaner if available. If irritation, rash or other disorders develop seek medical attention.

4.3 After Eye Contact:

Flush immediately with copious amounts of running water, while holding the eyelids open for at least 15 minutes or until irritation subsides. Seek medical attention.

4.4 After Ingestion:

Do not induce vomiting. If conscious, give water (or milk) to rinse out mouth and drink. Provide liquid slowly but as much as casualty will drink. Seek medical advice.

4.5 Advice to Doctor:

Treat symptomatically. Consult national poisons centre.

5. Fire Fighting Measures

5.1 Suitable Extinguishing Media:

Use extinguishing media suitable for surrounding fire (i.e. carbon dioxide, dry chemical). Spray to cool fire exposed surfaces and to protect personnel.

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 is non-flammable, however heating may cause expansion of containers or decomposition leading to violent rupture of containers.



5.4 Combustion Products:

Carbon monoxide, carbon dioxide, smoke, fumes and minor amounts of borates.

6. Accidental Release Measures

6.1 Preliminary Action and Precautions:

6.1.1 Avoid breathing vapours and contact with skin and eyes.

6.1.2 Ventilate enclosed spaces.

6.1.3 Wear recommended personal protective equipment.

6.1.4 Prevent entry of product into sewers, storm water drains and open bodies of water.

6.1.5 Collect the spillage in suitable disposal containers and allow to cure.

6.1.6 Dispose of as detailed in section 13.

7. Handling and Storage

7.1 Handling:

7.1.1 Ensure adequate ventilation

7.1.2 Prevent inhalation of vapours and/or dust, ingestion and contact with skin, eyes and clothing.

7.1.3 Contaminated clothing should be removed and laundered before reuse.

7.1.4 Keep containers closed when not in use.

7.1.5 Clean hands thoroughly after handling.

7.1.6 Do not eat, smoke or drink while using the product.

7.1.7 Use appropriate respiratory equipment if using in confined spaces.

7.2 Storage:

7.2.1 Store under normal warehouse conditions.

7.2.2 Store away from sources of ignition, (i.e. sparks, open flames, heat etc.)

7.2.3 Store in closed containers below 30°C at all times.



8. Exposure Controls and Personal Protection Equipment

8.1 Exposure Limits:

None assigned for moisture. Individual constituents as follows:

Solvent naphtha (petroleum)	Cas – 64742-95-6	TLV/TWA (ACGIH):	19ppm (100mg/m ³)
Sodium tetraborate decahydrate	Cas – 1303-96-4	TLV/TWA (ACGIH):	(5mg/m ³)
Solvent naphtha medium aliphatic	Cas – 64742-88-7	TLV/TWA (ACGIH):	(5mg/m ³)
Ammonium hydroxide	Cas – 1336-21-6	TLV/TWA (ACGIH):	25ppm (17mg/m ³)
		STEL (ACGIH):	35ppm (24mg/m ³)

8.2 Exposure Controls:

8.2.1 Exposure Controls in the Work Place:

Always ensure adequate ventilation as trace levels of styrene, butyl acrylate and acrylate are unavoidably present in trace amounts due to polymer mixture in product. Use mechanical exhaust in confined spaces.

8.2.2 Personal Protection Equipment

Respiratory Protection –	In non emergency situations, where the inhalation risk of over exposure exists, wear appropriate, properly fitted NIOSH/MSHA, approved respirator of the air purifying type. Correct fit is essential to obtain adequate protection. For confined spaces or emergencies involving very high concentrations use approved self contained breathing apparatus (SCBA).
Hand Protection –	Use chemically resistant gloves (insoluble plastic or insoluble rubber).
Eye Protection –	Wear chemical splash goggles or face shield to prevent eye contact .
Personal Protective Measures -	Contaminated clothing should be removed and laundered before reuse.

9. Physical and Chemical Properties

9.1 General Information:

Physical State/Form	Viscous paste
Colour	Grey
Odour	Ammonia and acrylic odour
Boiling Point	100°C (Water)
Vapour Pressure	Not available
Specific Gravity	1.4 approx.
Flash Point	Not applicable
Flammability Limits	Not applicable
Water Solubility/Miscibility	Miscible with water
pH	8 - 10
% Volatiles (by weight)	20% approx.
Decomposition Temperature	Not available



10. Stability and Reaction

10.1 General Information:

This material is stable under normal temperature conditions and when properly handled and stored.

10.2 Conditions to Avoid:

Product is non-flammable, however heating may cause expansion of containers or decomposition leading to violent rupture of containers.

10.3 Material to Avoid:

None known.

10.4 Hazardous Decomposition Products:

None expected when material properly handled and stored. Thermal decomposition see section 5.

11. Toxicological Information

11.1 Acute toxicity:

Oral LD50 Lo:	(Man)	709 mg/kg
Oral LD50:	(Rat)	2660 mg/kg

Reproduction effect on rats. Mutagenic towards bacteria.

11.2 Skin Contact:

May cause irritation, drying of the skin, which may lead to dermatitis. Open cuts, abraded or irritated skin should not be exposed to these materials.

11.3 Eye Contact:

Irritating to the eyes and is capable of causing temporary impairment of vision or other transient eye damage/ulceration. If sanded, the dust may be abrasive and irritating to the eyes, and may be capable of corneal scarring.

11.4 Ingestion:

Irritating and may be harmful if swallowed. Ingestion may result in nausea, abdominal irritation, pain and vomiting. Considered an unlikely route of entry in commercial environment.

11.5 Inhalation:

Irritating to the upper respiratory tract. Inhalation hazard is increased at higher temperatures. Content of ammonia is low and is not considered a health hazard under food working conditions, however continuous long term working in confined and poorly ventilated areas may cause irritation response, sore eyes and nose.

11.6 Chronic effects:

Chronic effects are not available for this product, however overexposure to respirable dust due to silica content may cause coughing, wheezing, difficulty in breathing and impaired pulmonary function. Chronic symptoms include decreased vital capacity and chest infections. Chronic exposure may cause silicosis, a disabling form of pneumoconiosis (accumulation of dust in the lungs – confirmable by xray) which leads to fibrosis (scarring of the lining of the air sacs in the lungs) and increased risk of tuberculosis. As the product is a thick paste this is an unlikely route of exposure. Care should be taken if dried product is sanded.



11.7 Aggravated Medical Conditions:

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

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 regulations 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: 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: Can be transported under normal conditions.

15. Regulatory Information

This product is hazardous.

16. Other Information

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

R22	Harmful if swallowed
R36/37/38	Irritating to the eyes, respiratory system and skin
R42	May cause sensitization by inhalation



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

- S24/25** Avoid contact with skin and eyes
S36/37/39 Wear suitable protective clothing, 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.