



PRINT DATE: 1/07/07

Version 1.0
REVISION DATE: 1/07/07

MATERIAL SAFETY DATA SHEET

MSDS 613

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1. Product and Company Identification

- 1.1 PRODUCT NAME:** TREMPRO 650
- 1.2 USE OF PRODUCT** Sealant.
- 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:**
R36,37,38,42
S2,36,37,39

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

3. Composition/Information on Ingredients

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



3.2 Hazardous Ingredients:

| CAS NO. | COMPONENT | CONCENTRATION % | CLASSIFICATION |
|-----------|--------------------------------------|-----------------|-----------------------|
| 85-68-7 | Butyl benzyl phthalate | 15.0-40.0% | - |
| 1330-20-7 | Xylene | 3.0-7.0% | R10/20/21/38 |
| 8052-41-3 | Stoddard solvent (mineral spirits) | 1.0-5.0% | R10/36/37/38 |
| 100-14-4 | Ethylbenzene | 0.5-1.5% | R11/20/36/37/38 |
| 101-68-8 | 4,4'-Methylene bis(phenylisocyanate) | 0.1-1.0% | R20/22/36/37/38/42 |
| 117-81-7 | Dioctyl phthalate | 0.1-1.0% | R36/37/38/60/61 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.1-1.0% | R10/20/36/37/38/51/53 |

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:

Leave area to breathe fresh air. Avoid further over exposure. If symptoms persist, seek medical attention. If required, artificial respiration or administration of oxygen can be performed by trained personnel.

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 is non-flammable. However, heating may cause expansion of packaging or decomposition leading to violent rupture of the packaging.

5.4 Combustion Products:

Carbon monoxide, carbon dioxide, fumes, and smoke. Hydrocyanic acid and nitrogen oxides can form.

6. Accidental Release Measures

6.1 Preliminary Action and Precautions:

6.1.1 Ventilate enclosed spaces.

6.1.2 Avoid breathing vapour and contact with skin, eyes and clothing.

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 Scrape up spillage and collect in suitable, disposable 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 vapour, ingestion and contact with skin, eyes and clothing.

7.1.3 Preferably use entire contents in one continuous work session.

7.1.4 Change soiled work clothes frequently and launder before reuse.

7.1.5 Clean hands thoroughly after handling.

7.1.6 Do not smoke, weld, generate sparks, or use flame near container.

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

7.1.8 Emptied packaging may retain product residue and vapour, observe precautions even after packaging is emptied.

7.1.9 Use appropriate respiratory equipment if using in confined spaces.





7.2 Storage:

7.2.1 Store under cool, 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 amines, water or moisture, oxidizing agents, alcohols, strong acids and strong bases.

8. Exposure Controls and Personal Protection Equipment

8.1 Exposure Limits:

| | | | | |
|--------------------------------------|------------------|------------------|----------|-------------------------|
| Stoddard solvent | Cas – 8052-41-3 | TLV/TWA (ACGIH): | 100ppm | (525mg/m ³) |
| Xylene | Cas – 1330-20-7 | TLV/TWA (ACGIH): | 100ppm | (435mg/m ³) |
| | | STEL (ACGIH): | 150ppm | (650mg/m ³) |
| Ethylbenzene | Cas – 100-41-4 | TLV/TWA (ACGIH): | 100ppm | (435mg/m ³) |
| | | STEL (ACGIH): | 125ppm | (540mg/m ³) |
| 4,4'-Methylene bis(phenylisocyanate) | Cas – 25551-13-7 | TLV/TWA (ACGIH): | 0.005ppm | |
| 1,2,4-trimethylbenzene | Cas – 95-63-6 | TLV/TWA (ACGIH): | 25ppm | (123mg/m ³) |
| Dioctyl phthalate | Cas – 117-81-7 | TLV/TWA (ACGIH): | | (5mg/m ³) |

8.2 Exposure Controls:

8.2.1 Exposure Controls in the Work Place:

Use general ventilation and/or local exhaust to reduce the airborne contaminant concentration below the exposure limit listed in the MSDS.

8.2.2 Personal Protection Equipment

| | |
|--------------------------|---|
| Respiratory Protection – | Wear appropriate, properly fitted NIOSH/MSHA, approved organic vapour or supplied air 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 appropriate eye protection. Use safety glasses if eye contact is likely. |
| Skin/Body Protection - | Use disposable or impervious clothing if work clothing contamination is likely. Remove and wash contaminated clothing before reuse. |
| Protective Measures - | Use professional judgment in the selection, care and use. |



9. Physical and Chemical Properties

| | |
|-------------------------------------|-----------------------------|
| 9.1 General Information: | |
| Physical State/Form | Paste (liquid) |
| Colour | Various |
| Odour | Mild aromatic |
| pH | Not available |
| Vapour Pressure | Not available |
| Vapour Density | Heavier than air |
| Melting Point/Range | Not available |
| Flash Point | 58°C (Setaflash closed cup) |
| Explosion Limits | Not available |
| Autoignition Temperature | Not available |
| Freezing Point | Not available |
| Boiling Point/Range | Not available |
| Water Solubility/Miscibility | Insoluble |
| Evaporation Rate | Not available |
| Specific Gravity | 1.17 |
| % Volatile Weight | 10% |
| VOC | 118 g/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:**
None known.
- 10.3 Material to Avoid:**
Amines, water or moisture, oxidizing agents, alcohols, strong acids and strong bases.
- 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. May cause nausea, headaches and dizziness. May cause drowsiness, weakness and fatigue. May cause allergic respiratory sensitization. Leave area to breathe fresh air. Avoid further over exposure., If symptoms persist, get medical attention. If required, artificial respiration or administration of oxygen can be performed by trained personnel.



11.2 Acute toxicity:

Butyl benzyl phthalate:

Oral LD 50: (Rat) 13,500 mg/kg

Xylene:

Oral LD50: (Rat) 3,523 – 8,600 mg/kg

Inhalation LC50: (Rat) 6,350 mg/l

Ethylbenzene:

Oral LD50: (Rat) 3,500 mg/kg

Dermal LD50: (Rabbit) 17,800 mg/kg

4,4'-Methylene bis(phenylisocyanate):

Inhalation LC50: (Rat) 0.38 mg/l

Diethyl phthalate:

Oral LD50: (Rat) 25,000 mg/kg

Dermal LD50: (Rabbit) 25,000 mg/kg

11.3 Skin Contact:

May cause sensitization resulting in irritation, itching and redness.

11.4 Eye Contact:

Direct contact may cause mild irritation.

11.5 Ingestion:

May cause gastrointestinal irritation, nausea, and vomiting.

11.6 Inhalation:

May cause light irritation to the respiratory system. May cause nausea, headaches and dizziness. May cause drowsiness, weakness and fatigue. May cause allergic respiratory sensitization.

11.7 Chronic effects:

Over exposure may cause dermatitis, asthma, skin and respiratory sensitization and decreased lung function. Prolonged or repeated exposure to xylene may cause defatting, drying and irritation of the skin, dermatitis, central nervous system (CNS) effects, heart muscle sensitization and arrhythmia, hearing loss, and brain, liver, kidney damage. Xylene over exposure may affect fetal development. Prolonged or repeated exposure to butyl benzyl phthalate may cause reduced body weights and adverse effects of the liver, kidney, spleen, pancreas and reproductive organs. Di(2-ethylhexyl) phthalate, (dioctyl phthalate) given in the diet, produced increased incidence of liver cancers in female rats and male and female mice. An increased incidence of liver cancers or neoplasms were observed in male rats. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene and classified it as a possible human carcinogen based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. Diphenylmethane diisocyanate (methylene bisphenyl isocyanate) caused an increased incidence of lung tumors in experimental animals following long term inhalation at concentrations in excess of 100 times the exposure limit. Fillers are encapsulated and not expected to be released from product under normal conditions of use. Prolonged or repeated exposure to mineral spirits (stoddard solvent) may cause defatting, drying and irritation of the skin, dermatitis, central nervous system (CNS) effects, and adverse liver, kidney and lung effects.

11.8 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:**
- 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:**
- S2** Keep out of the reach of children
- 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.