



MATERIAL SAFETY DATA SHEET

Issue date: 9th March, 2009

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: BRUSHABLE HYDROSEAL

Company: Tremco Pty Limited ABN 25 000 024 064
Address: Unit 1, 2 Park Road, Rydalmere, New South Wales, 2116
Contact Nos.: Telephone: (02) 9638 2755 Fax: (02) 9638 2955
Emergency Telephone: 1800 224 512 Business Hours only 7am to 5pm Monday to Friday
Inclusive
Product Codes: 130103 500ml tin
130100 1L tin
130101 4L tin
130102 20L pail
Recommended Use: Sealing retaining walls and anti-drumming of metal surfaces
Other Names: Permaroof
Proper Shipping Name: TARS, LIQUIDS

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF WORKSAFE AUSTRALIA AND DANGEROUS GOODS ACCORDING TO THE ADG CODE

Symbols: Xn Harmful
Risk Phrases: R20 Harmful by inhalation
R36/37/38 Irritating to eyes, respiratory system and skin
Safety Phrases: S2 Keep out of the reach of children
S16 Keep away from sources of ignition – No smoking
S23 Do not breathe vapour

Emergency Overview

Black. Liquid. May cause nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue. May cause slight irritation to the respiratory system. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Acute Potential Health Effects/ Routes of Entry

Inhalation : May cause nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue. May cause slight irritation to the respiratory system.
Eyes : Direct contact may cause moderate irritation. Direct contact may cause temporary redness and discomfort.
Ingestion : May cause gastrointestinal irritation, nausea, and vomiting.
Skin : May cause moderate irritation. May cause itching, reddening, inflammation. May cause a rash. May cause sensitization.

Aggravated Medical Conditions

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

Chronic Health Effects

Prolonged or repeated skin contact with asphalt may result in skin sensitivity, such as irritation, rashes, and dermatitis. Prolonged or repeated exposure to polycyclic aromatic hydrocarbons and other volatiles which are contained in trace amounts in asphalt have been shown to cause cancer or respiratory damage in animals. Inhalation of crystalline silica (quartz) can cause cancer based on animal data, and IARC concludes sufficient evidence in humans (Group 1). Prolonged and repeated overexposure to free crystalline silica dust above the TLV level may cause scarring of the lungs with cough and shortness of breath. A delayed lung injury, silicosis may result from breathing free silica. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

Target Organs: Skin, Eye, Lung, Liver, Kidney, Nerve

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:	CAS Number:	Proportion:
Petroleum Asphalt Bitumen (blown)	8052-42-4	40-70%
Stoddart solvent	8052-41-3	40-70%
Attapulgate	12174-11-7	5-10%
Cellulose	9004-34-6	1-5%
3-Isodecoxypropylamine acetate	28701-67-9	1-5%
Crystalline Silica (Quartz)/Silica Sand	14808-60-7	<1.0%

4. FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

Inhalation : Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Eye contact : Flush with water for at least 15 minutes while holding eye lids apart. Get medical attention immediately.

Skin contact : Clean area of contact thoroughly using soap and water. If irritation, rash or other disorders develop, get medical attention immediately.

Ingestion : Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

5. FIRE FIGHTING MEASURES

Flash point : 41 °C
Method : Tag Closed Cup
Lower explosion limit : 1.00 %(V) Solvent
Upper explosion limit : 6 %(V) Solvent
Autoignition temperature : Not available.
Extinguishing media : If water fog is ineffective, use carbon dioxide, dry chemical or foam.

Hazardous combustion
Products : Smoke, fumes. Carbon monoxide and carbon dioxide
can form. Oxides of sulfur can form.

Protective equipment for
Firefighters : Use accepted fire fighting techniques. Wear full
firefighting protective clothing, including self-contained
breathing apparatus (SCBA).

Fire and explosion
conditions : 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.

Additional Information: Hazchem code 3Y

6. ACCIDENTAL RELEASE MEASURES

Observe all local and national regulations

Use appropriate protective equipment. Avoid contact with material. Remove sources of ignition immediately. Stop flow of material if safe to do so. Contain spill and keep out of water courses. Ventilate area. Absorb spill in sand, earth or suitable material. Transfer to appropriate container for disposal using non-sparking tools.

7. HANDLING & STORAGE

Prevent inhalation of vapour, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Do not smoke, weld, generate sparks, or use flame near container. Do not use in confined or poorly ventilated areas. Personal protective equipment must be worn during maintenance or repair of contaminated mixer, reactor, or other equipment. Store under dry warehouse conditions away from heat and all ignition sources.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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. Follow manufacturer's directions for respirator use.

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 and body protection : Prevent contact with shoes and clothing.

Protective measures : Use professional judgment in the selection, care, and use. Inspect and replace equipment at regular intervals.

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

Exposure Limits

Chemical Name	CAS Number	Limit
Petroleum Asphalt	8052-42-4	TWA 0.5 mg/m ³ Inhalable fraction as benzene solubles
Stoddart Solvent	8052-41-3	TWA 100 ppm PEL 2,900 mg/m ³
Cellulose	9004-34-6	TWA 10 mg/m ³ PEL 5 mg/m ³ Respirable fraction PEL 15 mg/m ³ Total dust TWA 15 mg/m ³ Total dust TWA 5 mg/m ³ Respirable fraction
Crystalline Silica (Quartz)/Silica Sand	14808-60-7	TWA 0.05 mg/m ³ Respirable fraction TWA 0.1 mg/m ³ Respirable TWA 0.3 mg/m ³ Total dust PEL 15 mg/m ³ Total dust PEL 5 mg/m ³ Respirable fraction

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid
 Colour : Black
 Odour : Solvent
 pH : Not available.
 Vapour pressure : Not available.

Vapour density : Heavier than air
Melting point/range : Not available.
Freezing point : Not available.
Boiling point/range : 155 °C
Water solubility : Negligible
Specific Gravity : 0.95
% Volatile Weight : 41 %
Volatile Organic Compounds : 39.4% = 362g/l

10. STABILITY AND REACTIVITY

Substances to avoid : Oxidizing agents.
Stability : Material is stable under normal storage, handling, and use.
Hazardous polymerization : Will not occur under normal conditions.

11. TOXICOLOGICAL INFORMATION

No data available.

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

Disposal Method : Remove all ignition sources. Keep people away.
Recover free material. Add absorbent (sand, earth, sawdust etc.) to spill area. Avoid breathing vapours. Ventilate enclosed spaces. Provide barriers to prevent liquid from entering streets, sewers or waterways. Assure conformity with applicable disposal regulations. Dispose of material at an approved disposal site or facility. Vapours are heavier than air and spread along the floor.

14. TRANSPORT INFORMATION

UN Number: 1999
Proper Shipping Name: TARS, LIQUIDS
Class: 3
Packing Group: III
Hazchem Code: 3Y

15. REGULATORY INFORMATION

Risk & Safety Phrases listed in Section 2.

16. OTHER INFORMATION

Keep out of reach of children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use and storage of the product under every foreseeable condition.

Website: www.tremco.com.au

The information sourced for the preparation of this document was correct and complete at the time of writing or to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority.