



Good bonds last.

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **SabreGrip R72 TPO EPDM Membrane Adhesive**
Product Use: Adhesive
Restriction of Use: Refer to Section 15

New Zealand Supplier: Sabre Adhesives Ltd
Address: 42 Cambridge Street South
Levin, 5510, New Zealand
Telephone: +64 (0)6 366 0007
Emergency No: **0800 764 766 (National Poison Centre)**

Australian Supplier: Sabre Adhesives Ltd
Address: Level 6, 10 Herb Elliot Avenue, Sydney NSW, 2127
Telephone No: +61 2 9098 8244
Emergency No: **13 11 26 (National Poison Line)**

Date SDS Issued: 17 October 2024

Section 2. Hazards Identification

Australia:
Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

New Zealand:
This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

NZ - EPA Approval Code: Surface Coatings and Colourants (subsidiary) - HSR002670

Pictograms



SIGNAL WORD: DANGER

| GHS Category | Hazard Code | Hazard Statement |
|--------------------------|-------------|--|
| Flammable gas Cat. 1A | H220 | Extremely flammable gas. |
| Liquified Gas | H280 | Contains gas under pressure may explode if heated. |
| Aspiration hazard Cat. 1 | H304 | May be fatal if swallowed and enters airways. |
| Skin irritation Cat. 2 | H315 | Causes skin irritation. |
| Eye irritation Cat. 2 | H319 | Causes serious eye irritation. |

| | | |
|---|------|--|
| specific target organ toxicity - single exposure Cat 3 - Narcotic Effects | H336 | May cause drowsiness or dizziness. |
| Hazardous to the aquatic environment chronic Cat. 2 | H411 | Toxic to aquatic life with long lasting effects. |

Prevention Code Prevention Statement

| | |
|------|--|
| P102 | Keep out of reach of children. |
| P103 | Read carefully and follow all instructions. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261 | Avoid breathing fumes, vapours or spray. |
| P264 | Wash hands thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective clothing as detailed in SDS Section 8. |

Response Code Response Statement

| | |
|------------------|--|
| P101 | If medical advice is needed, have product container or label at hand. |
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |
| P331 | Do NOT induce vomiting. |
| P377 | Leaking gas fire: Do not extinguish, unless leak can be stopped safely. |
| P381 | In case of leakage, eliminate all ignition sources. |
| P391 | Collect spillage. |
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P302 + P352 | IF ON SKIN: Wash with plenty of water. |
| P304 + P340 | IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. |
| P305 + P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P332 + P313 | If skin irritation occurs: Get medical advice/ attention. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |
| P362+P364 | Take off contaminated clothing and wash before reuse. |

Storage Code Storage Statement

| | |
|-------------|--|
| P403 | Store in a well-ventilated place. |
| P405 | Store locked up. |
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P410 + P403 | Protect from sunlight. Store in a well-ventilated place. |

Disposal Code Disposal Statement

| | |
|------|---|
| P501 | Dispose of according to the local authorities |
|------|---|

Section 3. Composition of hazardous Ingredients

| Ingredients | Wt% | CAS NUMBER. |
|----------------|-------|-------------|
| Methyl Acetate | 30-40 | 79-20-9 |
| Heptane | 10-20 | 142-82-5 |
| LPG | 30-40 | 68476-85-7 |

Section 4. First Aid Measures

Routes of Exposure:

| | |
|--------------|--|
| If in Eyes | <p>Gently rinse the affected eye(s) with clean, cool water for at least 15 minutes. Have the patient lie or sit down and tilt the head back. Hold the eyelid(s) open and pour water slowly over the eyeball(s) at the inner corners, letting the water run out of the outer corners.</p> <p>The patient may be in great pain and wish to keep the eyes closed. It is important that the material is rinsed from the eyes to prevent further damage.</p> <p>Ensure that the patient looks up, and side to side as the eye is rinsed in order to better reach all parts of the eye(s)</p> <p>Transport to hospital or doctor.</p> <p>Even when no pain persists and vision is good, a doctor should examine the eye as delayed damage may occur.</p> <p>If the patient cannot tolerate light, protect the eyes with a clean, loosely tied bandage.</p> <p>Ensure verbal communication and physical contact with the patient.</p> <p>DO NOT allow the patient to rub the eyes</p> <p>DO NOT allow the patient to tightly shut the eyes</p> <p>DO NOT introduce oil or ointment into the eye(s) without medical advice</p> <p>DO NOT use hot or tepid water.</p> |
| If on Skin | <p>Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.</p> |
| If Swallowed | <p>Rinse mouth. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Immediately call a POISON CENTER or doctor/physician.</p> |
| If Inhaled | <p>Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.</p> |

Most important symptoms and effects, both acute and delayed

Symptoms:

| | |
|--------------|---|
| Inhalation | May cause drowsiness or dizziness. |
| Ingestion | May be fatal if swallowed and enters airways. |
| Skin contact | Causes skin irritation. |
| Eye contact | Causes serious eye irritation. |

Notes to Doctor: Treat symptomatically.

Section 5. Fire Fighting Measures

| | |
|------------------------------|---|
| Hazard Type | Extremely Flammable Gas. Will be easily ignited by heat, sparks or flames. Will form explosive mixtures with air. |
| Hazards from products | May decompose explosively when heated or involved in fire. High concentration of gas may cause asphyxiation without warning. Contact with gas may cause burns, severe injury and/ or frostbite. Combustion products include: carbon monoxide (CO) carbon dioxide (CO ₂) other pyrolysis products typical of burning organic material. |

| | |
|---|---|
| Suitable Extinguishing media | DO NOT EXTINGUISH BURNING GAS UNLESS LEAK CAN BE STOPPED SAFELY: OTHERWISE: LEAVE GAS TO BURN. Use Water spray, fog , dry chemical, BCF, carbon dioxide or alcohol stable foam to extinguish. Do not use water jet. |
| Precautions for firefighters and special protective clothing | Wear breathing apparatus plus protective gloves in the event of a fire. Fight fire from a safe distance, with adequate cover. The only safe way to extinguish a flammable gas fire is to stop the flow of gas. If the flow cannot be stopped, allow the entire contents of the cylinder to burn while cooling the cylinder and surroundings with water from a suitable distance. Extinguishing the fire without stopping the gas flow may permit the formation of ignitable or explosive mixtures with air. These mixtures may propagate to a source of ignition. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control the fire and cool adjacent area. Avoid spraying water onto liquid pools. Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. |
| HAZCHEM CODE | 2YE |

Section 6. Accidental Release Measures

Wear protective clothing as described in Section 8. Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing vapour and any contact with liquid or gas. Do not enter confined spaces where gas may be accumulated. Shut off all sources of ignition and increase ventilation. No smoking or naked lights within area.

Prevent by any means available, spillage from entering drains and water-courses.

Stop leak if safe to do so. Remove leaking cylinders to a safe place, release pressure under safe controlled conditions by opening valve. Orientate cylinder so that the leak is gas, not liquid, to minimize rate of leakage. Keep area clear of personnel until gas has dispersed. Dispose of as per Section 13.

Section 7. Handling and Storage

Handling:

- Read carefully and follow all instructions.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Avoid breathing fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective clothing [as detailed in SDS Section 8].
- Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur.
- Containers, even those that have been emptied, may contain explosive vapours.
- Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- DO NOT attempt repair work on lines, vessels under pressure.
- DO NOT transfer gas from one cylinder to another.

Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children.
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
- Protect from sunlight. Store in a well-ventilated place.
- Keep in original container.
- Check that containers are clearly labelled and free from leaks.

Section 8 Exposure Controls / Personal Protection

Exposure Limit Values:

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

| Substance | | TWA | | STEL | |
|-------------------------------|--------------|------|-------------------|------|-------------------|
| | | ppm | mg/m ³ | ppm | mg/m ³ |
| Heptane (n-Heptane) | [142-82-5] | 400 | 1640 | 500 | 2050 |
| Methyl acetate | [79-20-9] | 200 | 606 | 250 | 757 |
| LPG (Liquefied petroleum gas) | [68476-85-7] | 1000 | 1800 | - | - |

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2023 14TH EDITION.

Engineering Controls

Ensure good ventilation of the work station.

Personal Protection Equipment



| | |
|--------------------|--|
| Eyes | Tight-fitting safety goggles. Avoid wearing contact lenses. |
| Hands | Wear cloth or leather gloves. Insulated gloves should be loose fitting so that may be removed quickly if liquid is spilled upon them. Insulated gloves are not made to permit hands to be placed in the liquid; they provide only short-term protection from accidental contact with the liquid. |
| Skin | Wear protective clothing and safety shoes. |
| Respiratory | Type AX Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent) |

Section 9 Physical and Chemical Properties

| | |
|------------------------|------------------------|
| Appearance | Liquified Gas Canister |
| Odour | Not available |
| Odour Threshold | Not available |
| pH | Not available |
| Boiling Point | -40°C |
| Melting Point | -97°C |
| Freezing Point | Not available |
| Flash Point | -104°C |
| Flammability | Highly Flammable |

| | |
|---|----------------|
| Upper and Lower Explosive Limits | 2.2 – 9.1% |
| Vapour Pressure | 46.86 kPa |
| Vapour Density | Not available |
| Relative Density | 0.88 (water=1) |
| Solubility in water | Immiscible |
| Partition Coefficient: | Not available |
| Auto-ignition Temperature | 495°C |
| Viscosity | Not available |
| VOC content | Not available |

Section 10. Stability and Reactivity

| | |
|---|------------------------------|
| Stability of Substance | Stable at normal conditions. |
| Conditions to Avoid | Refer to Section 7. |
| Incompatible Materials | Refer to Section 7. |
| Hazardous Decomposition Products | Refer to Section 5. |

Section 11 Toxicological Information

Acute Effects:

| | |
|-------------------|--|
| Swallowed | Considered an unlikely route of entry in commercial/industrial environments. Swallowing of the liquid may cause aspiration of vomit into the lungs with the risk of haemorrhaging, pulmonary oedema, progressing to chemical pneumonitis; serious consequences may result. Signs and symptoms of chemical (aspiration) pneumonitis may include coughing, gasping, choking, burning of the mouth, difficult breathing, and bluish coloured skin (cyanosis). |
| Dermal | Not applicable. |
| Inhalation | Inhalation of vapours may cause drowsiness and dizziness. Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and incoordination. |
| Eye | Causes serious irritation to eyes. |
| Skin | Causes skin irritation. |

Chronic Effects:

| | |
|-------------------------------|---|
| Carcinogenicity | Not applicable. |
| Reproductive Toxicity | Not applicable. |
| Germ Cell Mutagenicity | Not applicable. |
| Aspiration | May be fatal if swallowed and enters airways. |
| STOT/SE | Not applicable. |
| STOT/RE | Not applicable. |

Individual component information:

Acute Toxicity:

| Chemical Name | Oral – LD50 | Dermal – LD50 | Inhalation – LC50 |
|----------------------|---------------------|----------------------|--------------------------|
| Methyl acetate | 3700 mg/kg (rabbit) | >2000 mg/kg (rabbit) | - |
| Heptane | >5000 mg/kg (rat) | >2000 mg/kg | >29.29 mg/l/4hr |

| | | | |
|-----|---|----------|-------------------|
| | | (rabbit) | (rat) |
| LPG | - | - | 658 mg/l/4h (rat) |

Section 12. Ecotoxicological Information

Toxic to aquatic life with long lasting effects.

| | |
|--------------------------------------|------------------------------|
| Persistence and degradability | No data available on product |
| Bioaccumulative | No data available on product |
| Mobility in soil | No data available on product |
| Other adverse effects | No data available on product |

| | Endpoint | Test Duration (hr) | Species | Value | Source |
|-----------|----------------|--------------------|-------------------------------|-------------------------------|----------|
| | Methyl Acetate | EC50 | 72h | Algae or other aquatic plants | >120mg/l |
| EC50 | | 48h | Crustacia | 1026.7mg/l | 1 |
| NOEC(ECx) | | 72h | Algae or other aquatic plants | ≥120 mg/l | 1 |
| LC50 | | 96h | Fish | 250mg/l | 1 |
| Heptane | Endpoint | Test Duration (hr) | Species | Value | Source |
| | EC50 | 48h | Crustacia | 0.4mg/l | 2 |
| | LC50 | 96h | Fish | 0.11mg/l | 2 |
| | NOEC(ECx) | 504h | Crustacia | 0.17mg/l | 2 |

Legend: Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances – Ecotoxicological Information – Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Section 13. Disposal Considerations

Disposal Method:

Ensure containers are empty before discarding. Recycle where possible. Dispose as per Local Regulations.

Precautions and methods to avoid: Do not allow to enter waterways.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in Australia; ADG 7

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021



Road, Rail, Sea and Air Transport

| | |
|-----------------------------|---|
| UN No | 3501 |
| Class - Primary | 2.1 |
| Packing Group | Not applicable |
| Proper Shipping Name | CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. |
| Marine Pollutant | YES |
| Special Provisions | 274, 362 |

Product Name: SabreGrip R72 TPO EPDM Membrane Adhesive Prepared by: Technical Compliance Consultants (NZ) Ltd
Date of SDS: 17 October 2024 Tel: +64 9 475 5240 WWW.techcomp.co.nz

Section 15 Regulatory Information

Australia:

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Poison Schedule No: Not scheduled

New Zealand:

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Surface Coatings and Colourants (subsidiary) - HSR002670

Controls in New Zealand:

Trigger quantities for this substance:

| HSW (HS) Regulations 2017 and EPA Notices | Trigger Quantity |
|---|------------------------------------|
| Certified Handler | Not required |
| Location Certificate | 100kg |
| Tracking Trigger Quantities | Not required |
| Signage Trigger Quantities | 250kg |
| Emergency Response Plan | 300kg |
| Secondary Containment | 300kg |
| Restriction of Use | Only use for the intended purpose. |

Section 16 Other Information

Glossary

| | |
|------------------|---|
| EC ₅₀ | Median effective concentration. |
| EEL | Environmental Exposure Limit. |
| EPA | Environmental Protection Authority |
| HSNO | Hazardous Substances and New Organisms. |
| HSW | Health and Safety at Work. |
| LC ₅₀ | Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it. |
| LD ₅₀ | Lethal dose to kill 50% of test animals/organisms. |
| LEL | Lower explosive level. |
| OSHA | American Occupational Safety and Health Administration. |
| TEL | Tolerable Exposure Limit. |
| TLV | Threshold Limit Value-an exposure limit set by responsible authority. |
| UEL | Upper Explosive Level |
| WES | Workplace Exposure Limit |

References:

Australia:

1. Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
2. Standard for the Uniform Scheduling of Medicines and Poisons.
3. Australian Code for the Transport of Dangerous Goods by Road & Rail.
4. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
5. Workplace exposure standards for airborne contaminants, Safe work Australia.
6. American Conference of Industrial Hygienists (ACGIH).

7. Globally Harmonised System of classification and labelling of chemicals.

New Zealand:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the Australian Manufacturer or New Zealand distributor, if further information is required.

Issue Date: 17 October 2024

Review Date: 17 October 2029