

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: SabreFix PS
Product Use: Solvent based adhesive for polystyrene and other building materials.

New Zealand Supplier: Sabre Adhesives Ltd
Address: 42 Cambridge Street South
Levin, 5510, New Zealand
Telephone: +64 (06) 366 0007
Emergency No: **0800 764 766 (National Poison Centre)**

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

Date SDS Issued: 21 October 2020 v3

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 2017

NZ - EPA Approval Code: Surface Coatings and Colourants (Flammable) - HSR002662

Pictograms



Flammable Irritant Chronic

SIGNAL WORD: DANGER

HSNO Class. Hazard Hazard Statement GHS Category

| HSNO Class. | Hazard Code | Hazard Statement | GHS Category |
|-------------|-------------|--|-------------------|
| 3.1B | H225 | Highly flammable liquid and vapour. | Flam. Liq. 2 |
| 6.1E (oral) | H303 | May be harmful if swallowed. | Acute Tox. 5 |
| 6.3A | H315 | Causes skin irritation. | Skin Irrit. 2 |
| 9.1B | H411 | Toxic to aquatic life with long lasting effects. | Aquatic Chronic 2 |

Prevention Code Prevention Statement

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| | |
|------|---|
| P102 | Keep out of reach of children. |
| P103 | Read label before use. |
| P210 | Keep away from heat, sparks, open flames or hot surfaces. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P264 | Wash hands thoroughly after handling. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective clothing. |

| 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. |
| P362 | Take off contaminated clothing and wash before re-use. |
| P391 | Collect spillage. |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P303 + P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P332 + P313 | If skin irritation occurs: Get medical advice/ attention. |
| P370 + P378 | In case of fire: Use foam, dry chemical, carbon dioxide for extinction. |

| Storage Code | Storage Statement |
|---------------------|--|
| P403 + P235 | Store in a well-ventilated place. Keep cool. |

| Disposal Code | Disposal Statement |
|----------------------|---|
| P501 | Dispose of according to the local authorities |

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|-------------------|---|
| Section 3. | Composition of hazardous Ingredients |
|-------------------|---|

| Ingredients | Wt% | CAS NUMBER. |
|--------------------|------------|--------------------|
| Cyclohexane | 5 - <10 | 110-82-7 |
| Methylcyclohexane | 1 - <5 | 108-87-2 |
| n-Hexane | 1 - <3 | 110-54-3 |
| Non hazardous | To balance | |

| | |
|-------------------|---------------------------|
| Section 4. | First Aid Measures |
|-------------------|---------------------------|

Routes of Exposure:

| | |
|--------------|--|
| If in Eyes | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice. |
| If on Skin | Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower and soap. If skin irritation occurs: Get medical advice/ attention. |
| If Swallowed | Rinse mouth. Never give anything by mouth to an unconscious person. Consult a doctor if you feel unwell. |
| If Inhaled | 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.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: May be harmful if swallowed. Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. Nausea, vomiting.

Inhalation: None known.

Skin: Causes skin irritation.

Eye: May cause eye irritation. Lacrimation, redness.

Section 5. Fire Fighting Measures

| | |
|---|---|
| Hazard Type | Flammable |
| Hazards from products | Fumes from complete or incomplete combustion of this material may include carbon dioxide, carbon monoxide, water vapour, oxides of nitrogen or a wide variety of innocuous or toxic fumes. Solvent vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along ground to sources of ignition. |
| Suitable Extinguishing media | Foam, dry chemical, carbon dioxide. Do not use a water jet. |
| Precautions for firefighters and special protective clothing | Wear full protective equipment, including self-contained breathing apparatus. |
| HAZCHEM CODE | 3YE |

Section 6. Accidental Release Measures

Small Spills Extinguish all ignition sources. Avoid sparks, flames and heat. Avoid accidents and clean up immediately. Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (rag or paper towels). Collect and seal in properly labelled containers or drums for disposal or recycling.

Large Spills Extinguish all ignition sources. Avoid sparks, flames, heat and the build-up of static electricity. Consider evacuation of area and/or site. Alert emergency services if required. Slippery when spilt. Avoid accidents and clean up immediately. Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours by wearing appropriate respirator. Contain spill to prevent run off into drains and waterways. Use absorbent (rags, soil, sand, or other inert material). Collect using spark-free shovels (ie. plastic) and seal in properly labelled containers or drums for disposal or recycling. See Disposal section of this SDS for further details.

Section 7. Handling and Storage

Handling:

- Keep out of reach of children.
- Read label before use.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Flammable vapours released during adhesive application may form explosive mixtures with air.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting.

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- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wash hands thoroughly after handling.
- Avoid release to the environment.
- Wear protective clothing.

Storage:

- Store locked up.
- Store in a cool, dry, well ventilated place and out of direct sunlight.
- Keep container closed when not in use.
- Isolate from incompatible materials detailed in Section 10.

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 |
| Cyclohexane | [110-82-7] | 100 | 350 | 300 | 1050 |
| Methylcyclohexane | [108-87-2] | 400 | 1610 | - | - |
| Hexane | [110-54-3] | 20 | 72 | - | - |

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.

Engineering Controls

Use in a well ventilated area only. Vapour is heavier than air. Prevent concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected. Keep containers in a well ventilated area. Explosion proof general and local exhaust ventilation system is required for factory use.

Personal Protection Equipment



| | |
|-------------------------|--|
| Eyes | Wear safety glasses with side shields (or goggles) |
| Hands and Skin | Wear solvent resistant gloves to avoid repeated and prolonged skin contact. Wear overalls or similar clothing and enclosed footwear. |
| Respiratory | Wear organic vapour respirator if working in a poorly ventilated area or during spraying. |
| Hygiene measures | Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse. |

Section 9 Physical and Chemical Properties

| | |
|------------------------|-------------------|
| Appearance | Brown thick paste |
| Odour | Solvent |
| Odour Threshold | Not applicable |
| pH | Not applicable |
| Boiling Point | ~ 70°C |

| | |
|---|-------------------|
| Melting Point | Not applicable |
| Freezing Point | Not applicable |
| Flash Point | ~ -15°C |
| Flammability | Flammable |
| Upper and Lower Explosive Limits | 7.5% 1.1% |
| Vapour Pressure | Not applicable |
| Vapour Density | Not applicable |
| Specific Gravity | 1.14 kg/l |
| Solubility in water | Very low |
| Partition Coefficient: | Not applicable |
| Auto-ignition Temperature | Not applicable |
| Decomposition Temperature | Not applicable |
| Percent Volatile by weight | Approximately 30% |
| Particle Characteristics | Not applicable |

Section 10. Stability and Reactivity

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|---|--|
| Stability of Substance | This product is stable under normal conditions. |
| Conditions to Avoid | Avoid heat, sparks, flames and any other sources of ignition. Protect from moisture. |
| Incompatible Materials | Strong oxidising agents, acids and bases. |
| Hazardous Decomposition Products | Thermal decomposition is highly dependant on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation. |

Section 11 Toxicological Information

Acute Effects:

| | |
|-------------------|------------------------------|
| Swallowed | May be harmful if swallowed. |
| Dermal | Not applicable. |
| Inhalation | Not applicable. |
| Eye | Not applicable. |
| Skin | Causes skin irritation. |

Chronic Effects:

| | |
|-------------------------------|-----------------|
| Carcinogenicity | Not applicable. |
| Reproductive Toxicity | Not applicable. |
| Germ Cell Mutagenicity | Not applicable. |
| Aspiration | Not applicable. |
| STOT/SE | Not applicable. |
| STOT/RE | Not applicable. |

Component information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-------------------------|-------------------|--------------------------|------------------------|
| Cyclohexane 110-82-7 | 12705 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | 13.9 mg/L (Rat) 4 h |

| | | | |
|-------------------------------|--------------------|---------------------------------|---------------------------------------|
| Methylcyclohexane 108-87-2 | > 3200 mg/kg (Rat) | >2920 mg/Kg bw (rat) 24 hour | >23 mg/l (vapour) (Rat - OECD 403) |
| Hexane 110-54-3 | 25 g/kg (Rat) | 3000 mg/kg (Rabbit) | 48000 ppm (Rat) 4 h |

Section 12. Ecotoxicological Information

New Zealand:

HSNO Classes: 9.1B = Toxic to aquatic life with long lasting effects.

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|--------------------------------------|--|
| Persistence and degradability | The solvent in this product is readily biodegradable. The remainder of the product is expected to biodegrade slowly. |
| Bioaccumulation | No data available. The potential to bioaccumulate is expected to be low. |
| Mobility in Soil | Not miscible with water. Heavier than water. |
| Other adverse effects | No data available |

Component information

| Chemical Name | Algae/Aquatic Plants | Fish | Crustacea |
|-------------------------------|--|--|---|
| Cyclohexane 110-82-7 | EC50 72 h > 9.3 mg/L (Pseudokirchnerella subcapitata) | LC50 96 h 23.03 - 42.07 mg/L (Pimephales promelas static) LC50 96 h 48.87 - 68.76 mg/L (Poecilia reticulata static) LC50 96 h 3.96 - 5.18 mg/L (Pimephales promelas flow-through) LC50 96 h 24.99 - 44.69 mg/L (Lepomis macrochirus static) | EC50 24 h > 400 mg/L (Daphnia magna) |
| Methylcyclohexane 108-87-2 | 10 mg/l (Pseudokirchneriella subcapitata - OECD 201) | 2.07 mg/l (Oryzias latipes) | 3 mg/l (Daphnia magna - OECD 202) |
| Hexane 110-54-3 | - | LC50 96 h 2.1 - 2.98 mg/L (Pimephales promelas flow-through) | EC50 24 h > 1000 mg/L (Daphnia magna) |

Do not allow to enter waterways.

Section 13. Disposal Considerations

Substance Disposal

Do not dispose of down drains or into local waterways. Dispose of substance to a hazardous or special waste collection point or through a licensed contractor. Not suitable for incineration unless by an approved agent. Dried product is not hazardous and may be disposed of with general waste.

Container Disposal

Empty containers of dried waste are not hazardous. Consider the possible fire hazard from un-dried residues. Dispose of bulk waste to a hazardous or special waste collection point.
Beware: Empty flammable liquid drums present an explosion hazard if cut by flame or welding torch. Ensure drums are thoroughly cleaned and ventilated.

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: NZS 5433:2012



Road and Rail Transport

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UN No: 1133
 Class-primary 3
 Packing Group III
 Proper Shipping Name: ADHESIVES (CYCLOHEXANE)

Air Transport

UN No: 1133
 Class-primary 3
 Packing Group III
 Proper Shipping Name: ADHESIVES (CYCLOHEXANE)

Marine Transport

UN No: 1133
 Class-primary 3
 Packing Group III
 Proper Shipping Name: ADHESIVES (CYCLOHEXANE)
 Marine Pollutant YES

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.

Classified as a Schedule 5 Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

New Zealand:

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: Surface Coatings and Colourants (Flammable) – HSR002662

HSNO Classification: 3.1B, 6.1E(oral), 6.3A, 9.1B

| HSW (HS) Regulations 2017 and EPA Notices | Trigger Quantity |
|--|----------------------------------|
| Certified Handler | Not applicable |
| Location Certificate | 100L (>5L), 250L (<5L), 50L open |
| Tracking Trigger Quantities | Not applicable |
| Signage Trigger Quantities | 250L (3.1B) |
| Fire Extinguisher Trigger Quantities | 250L – 2x required |
| Emergency Response Plan trigger Quantities | 1000L (3.1B) |
| Secondary Containment | 1000L (3.1B) |
| Restrictions of use | None |

Section 16 Other Information

Glossary

EC₅₀ Median effective concentration.
 EEL Environmental Exposure Limit.
 EPA Environmental Protection Authority
 HSNO Hazardous Substances and New Organisms.
 HSW Health and Safety at Work.
 LC₅₀ Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
 LD₅₀ 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 Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
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

Please contact the distributor if further information is required.

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