

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

Product Name: SabreFix PS v3
 Date of SDS: 21 October 2020

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

Section 3.	Composition of hazardous Ingredients
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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
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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.

Product Name: SabreFix PS v3
Date of SDS: 21 October 2020

- 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

Product Name: SabreFix PS v3
Date of SDS: 21 October 2020

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

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

Product Name: SabreFix PS v3
Date of SDS: 21 October 2020

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.

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

Product Name: SabreFix PS v3
Date of SDS: 21 October 2020

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.

Product Name: SabreFix PS v3
 Date of SDS: 21 October 2020

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

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Please contact the distributor if further information is required.

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