

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: SabreFix PU Plus
 Product Use: Adhesive
 Restrictions of use: Refer to Section 15

New Zealand Supplier: Sabre Adhesives Ltd
 Address: 42 Cambridge Street
 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: 22 August 2016

Section 2. Hazards Identification

Australia NOHSC – Is hazardous according to Safe Work Australia NOHSC 2011 National Code of Practice

NZ - This substance is hazardous according to The *HSNO (Minimum Degrees of Hazard) Regulations 2001*

NZ - EPA Approval Code: Surface Coatings and Colourants (Toxic [6.7]) - HSR002679

Pictograms



Toxic/ Irritant



Chronic



Ecotoxic

SIGNAL WORD: Warning

HSNO Class. Category	Hazard Code	Hazard Statement	GHS
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6.1D (inh)	H332	Harmful if inhaled.	Category 4
6.3A	H315	Causes skin irritation.	Category 2
6.4A	H319	Causes serious eye irritation.	Category 2A

6.5A	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Category 1
6.5B	H317	May cause an allergic skin reaction.	Category 1
6.7B	H351	Suspected of causing cancer.	Category 2
6.9A (Single exposure)	H370	Causes damage to organs.	Category 1
6.9B (Repeated exposure)	H373	May cause damage to organs through prolonged or repeated exposure.	Category 2
9.1B	H411	Toxic to aquatic life with long lasting effects.	Category 2

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe fumes or vapours.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing.
P281	Use personal protective equipment as required.
P285	In case of inadequate ventilation wear respiratory protection.

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.
P304 + P341	IF INHALED: If breathing is difficult, 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.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Storage Code	Storage Statement
P405	Store locked up.

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

Section 3. Composition of hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Polymer based on aromatic polyisocyanate	<75	99784-49-3
O-(p-isocyanatobenzyl isocyanate, diphenylmethane-2,4-diisocyanate)	<25	5873-54-1

4,4-methylenediphenyl diisocyanate, diphenylmethane-4,4-diisocyanate	<25	101-68-8
Diethyltoluenediamine	<1	68479-98-1

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 and wash before reuse. Rinse skin with water/shower. If skin irritation or rash 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.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from products	May release harmful fumes.
Suitable Extinguishing media	Water fog. Powder.
Precautions for firefighters and special protective clothing	Do not enter fire area without proper protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire. Evacuate unnecessary personnel. Do not breathe fumes from fires or vapours from decomposition. Cool down the containers exposed to heat with a water spray. Do not allow run-off from fire-fighting to enter drains or water courses.
HAZCHEM CODE	3Z

Section 6. Accidental Release Measures

Wear suitable protective gear as detailed in Section 8. Evacuate all unnecessary personnel.

Sweep or shovel spills into appropriate container for disposal. Wash non recoverable remainder with large amounts of water. This material and its container must be disposed of in a safe way, and as per local legislation. Do not allow to enter waterways.

Section 7. Handling and Storage

Handling:

- Read label before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe fumes or vapours.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.

- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing.
- Use personal protective equipment as required.
- In case of inadequate ventilation wear respiratory protection.
- Handling temperature: 5-35°C

Storage:

- Store locked up.
- Keep out of reach of children.
- Store in a cool, dry, well ventilated place. Keep container tightly closed.
- Must be kept in the original packaging.
- Isolate from incompatible materials detailed in Section 10.
- Storage temperature: 5-25°C
- Maximum storage period: 12 months.

Section 8 Exposure Controls / Personal Protection

Exposure Limit Values:

1.2-Propylene glycol (57-55-6)		
United Kingdom	WEL TWA (mg/m ³)	474 mg/m ³
United Kingdom	WEL TWA (ppm)	150 ppm
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)		
United Kingdom	WEL TWA (mg/m ³)	0,02 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	0,07 mg/m ³

Engineering Controls

Local exhaust and general ventilation must be adequate to meet exposure standards.

Personal Protection Equipment

Hand protection:

Type	Material	Permeation	Thickness	Penetration	Standard
Disposable gloves	Nitrile rubber, Chloroprene rubber, Butyl rubber,	6 (> 480 minutes)	>= 0.5		EN 374

Eye protection:

Type	Use	Characteristics	Standard
Safety	Droplet	With side shields	

Skin and body protection:

If skin contact or contamination of clothing is possible, protective clothing should be worn

Respiratory protection:

Air-fed respiratory protective equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational exposure limit



Section 9 Physical and Chemical Properties

Appearance	Transparent viscous liquid
Odour	Characteristic
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	≥200 °C
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Relative Density	1.1
Density	1.14 g/cm ³
Solubility in water	Insoluble
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Oxidising	Not available
Viscosity	Not available
Evaporation Rate	Not available

Section 10. Stability and Reactivity

Stability of Substance	Stable at ambient temperature and under normal conditions of use.
Conditions to Avoid	Moisture
Incompatible Materials	Strong acids, strong bases and strong oxidants.
Hazardous Decomposition Products	When heated to decomposition, emits dangerous fumes.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Eye	Causes severe irritation to eyes.
Skin	Causes skin irritation. May cause an allergic skin reaction.

Chronic Effects:

Carcinogenicity	Suspected of causing cancer.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	May cause damage to organs
STOT/RE	May cause damage to organs through prolonged or repeated exposure.

Section 12. Ecotoxicological Information

New Zealand

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

Toxicity

o-(p-isocyanatobenzyl)phenyl isocyanate, diphenylmethane-2,4'-diisocyanate (5873-54-1)	
LC50 fish 1	> 1000 mg/l (OECD 203 method)
EC50 Daphnia 1	> 1000 mg/l (OECD 202 method)
ErC50 (algae)	> 1640 mg/l (OECD 201 method)
NOEC (acute)	14 d ≥ 1000 mg/kg Earthworm
NOEC (chronic)	21 d ≥ 21 mg/l Daphnia magna (Big water flea)
NOEC chronic crustacea	14 d > 1000 mg/l
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)	
LC50 fish 1	96h ≥ 1000 mg/l Brachydanio rerio (zebra-fish)
EC50 Daphnia 1	24h ≥ 1000 mg/l Daphnia magna (Big water flea)
EC50 other aquatic organisms 1	72h ≥ 1640 mg/l Scenedesmus subspicatus
EC50 other aquatic organisms 2	3 h ≥ 100 mg/l Activated sludge
NOEC (acute)	14 d ≥ 1000 mg/kg Earthworm
NOEC (chronic)	21 d ≥ 10 mg/l Daphnia magna (Big water flea)
Prepolymer based on aromatic polyisocyanate (99784-49-3)	
EC50 Daphnia 1	> 100 mg/l (OECD 209 method)
EC50 other aquatic organisms 2	≥ 1000 mg/l Activated sludge

Persistence and Degradability

o-(p-isocyanatobenzyl)phenyl isocyanate, diphenylmethane-2,4'-diisocyanate (5873-54-1)	
Persistence and degradability	Hydrolysis in water.
Biodegradation	28d 0 %
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)	
Persistence and degradability	Hydrolysis in water.
Biodegradation	28d 0 %

Bio accumulative Potential

o-(p-isocyanatobenzyl)phenyl isocyanate, diphenylmethane-2,4'-diisocyanate (5873-54-1)	
Bioconcentration factor (BCF REACH)	28 d 200 0.00008 mg/L
Log Pow	4,51 at 22°C
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)	
Bioconcentration factor (BCF REACH)	28 d 200 0.00008 mg/L

Mobility in Soil	No data available.
Other adverse effects	No data available

Section 13. Disposal Considerations

Disposal Method: Place product into an appropriate waste container for disposal through appropriate waste company or specialized landfill in accordance with local regulations.

Precautions: Ensure waste container containing recovered product or contaminated spill media is labelled "Hazardous Waste – Chronic Toxic, Ecotoxic".

Disposal methods to avoid: None known.

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

UN No: 3082
Class-primary 9
Packing Group III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS LIQUID, N.O.S

Air Transport

UN No: 3082
Class-primary 9
Packing Group III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS LIQUID, N.O.S

Marine Transport

UN No: 3082
Class-primary 9
Packing Group III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS LIQUID, N.O.S

Section 15 Regulatory Information

Australia:

Australia NOHSC – Hazardous according to Safe Work Australia NOHSC 2011 National Code of Practice

Poison Schedule No: Not Scheduled

New Zealand:

EPA Approval Code: Surface Coatings and Colourants (Toxic [6.7]) – HSR002679

HSNO Classification: 6.1D(inh), 6.3A, 6.4A, 6.5A/B, 6.7B, 6.9A/B, 9.1B

HSNO Controls in New Zealand:

Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L (9.1B)
Emergency Response Plan trigger Quantities	1000L (9.1B)
Restrictions of use	None

Section 16 Other Information

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.
2. Safe Work Australia NOHSC 2011 National Code of Practice

Disclaimer

This document has been issued by the TCC(NZ) Ltd and serves as their Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to the 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

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Please contact the distributor if further information is required.

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