

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: SabreFix LF Expansion Foam
Product Use: Gun Grade Expanding Foam

New Zealand Supplier: Sabre Adhesives Ltd
Address: 40-42 Cambridge St
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 Ave, Sydney, NSW, 2127
Telephone No: +61 2 9098 8244
Emergency No: **13 11 26 (National Poison Line)**

Date SDS Issued: 16 October 2025 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 2020

EPA Approval Code: Aerosols (Flammable, Carcinogenic) - HSR002517

Pictograms



Flammable Toxic/Irritant Chronic

SIGNAL WORD: DANGER

GHS Category	Hazard Code	Hazard Statement
Aerosol Cat. 1	H222	Extremely flammable aerosol.
	H229	Pressurised container: May burst if heated.
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Acute inhalation toxicity Cat. 4	H332	Harmful if inhaled.
Skin irritation Cat. 2	H315	Causes skin irritation.
Eye irritation Cat. 2	H319	Causes serious eye irritation.

Respiratory sensitisation Cat. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
Carcinogenicity Cat. 2	H351	Suspected of causing cancer.
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
specific target organ toxicity – single exposure Cat. 3 respiratory tract irritation	H335	May cause respiratory irritation.

Prevention Code Prevention Statement

P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P201	Obtain special instructions before use.
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.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe fumes, mist, vapours or spray.
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.
P280	Wear protective clothing as detailed in SDS Section 8.
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.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
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.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P362+P364	Take off contaminated clothing and wash before reuse.

Storage Code Storage Statement

P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

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.
4,4'-methylenediphenyl diisocyanate, isomers and homologues	30-<50	9016-87-9
Phosphoric trichloride, reaction products with propylene oxide	10-<20	1244733-77-4
Isobutane	5-<10	75-28-5
1,1-difluoroethane	5-<10	75-37-6
Dimethyl ether	2.5-<5	115-10-6

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	Take off contaminated clothing and wash before re-use. 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. Call a POISON CENTER or doctor/physician 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:	Irritation in the throat, abdominal pain, nausea and vomiting
Inhalation:	Headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness. Causes respiratory irritation.
Skin:	Inflammation, redness, itchiness.
Eye:	Causes serious eye irritation. Redness, lacrimation.

Section 5. Fire Fighting Measures

Hazard Type	Flammable Aerosol
Hazards from products	As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.
Suitable Extinguishing media	If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO ₂). IT IS RECOMMENDED NOT to use tap water as an extinguishing agent.
Precautions for firefighters and special protective clothing	Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit).
HAZCHEM CODE	2R

Section 6. Accidental Release Measures

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

Section 7. Handling and Storage

Handling:

- Keep out of reach of children.
- Read label before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.
- Do not spray on an open flame or other ignition source.
- Pressurized container: Do not pierce or burn, even after use.
- 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.
- Wear protective gloves clothing.
- Use personal protective equipment as required.
In case of inadequate ventilation wear respiratory protection.

Storage:

- Store locked up.
- Protect from sunlight. Do not expose to temperatures minimum 5 °C exceeding 30 °C.
- 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
Dimethylether (2001) [115-10-6]	400	766	500	958

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 Feb 2025 15TH EDITION.

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Phosphoric trichloride, reaction products with propylene oxide CAS: 1244733-77-4 EC: 911-815-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	8 mg/kg	Non-applicable	2,08 mg/kg	Non-applicable
	Inhalation	22,4 mg/m ³	Non-applicable	5,82 mg/m ³	Non-applicable
Dimethyl ether CAS: 115-10-6 EC: 204-065-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1894 mg/m ³	Non-applicable
2,2'-dimorpholinyl-diethyl ether CAS: 6425-39-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1 mg/kg	Non-applicable

Product Name: Sabrefix LF
Date of SDS: 16 October 2025

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd
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EC: 229-194-7	Inhalation	Non-applicable	Non-applicable	7,28 mg/m ³	Non-applicable
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DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Phosphoric trichloride, reaction products with propylene oxide CAS: 1244733-77-4 EC: 911-815-4	Oral	Non-applicable	Non-applicable	0,52 mg/kg	Non-applicable
	Dermal	4 mg/kg	Non-applicable	1,04 mg/kg	Non-applicable
	Inhalation	11,2 mg/m ³	Non-applicable	1,46 mg/m ³	Non-applicable
Dimethyl ether CAS: 115-10-6 EC: 204-065-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	471 mg/m ³	Non-applicable
2,2'-dimorpholinyl-diethyl ether CAS: 6425-39-4 EC: 229-194-7	Oral	Non-applicable	Non-applicable	0,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,8 mg/m ³	Non-applicable

PNEC:

Identification				
	STP	Soil	Intermittent	Oral
Phosphoric trichloride, reaction products with propylene oxide CAS: 1244733-77-4 EC: 911-815-4	Fresh water	7,84 mg/L	0,64 mg/L	
	Marine water	1,7 mg/kg	0,064 mg/L	
	Sediment (Fresh water)	0,51 mg/L	13,4 mg/kg	
	Sediment (Marine water)	11,6 g/kg	1,34 mg/kg	
Dimethyl ether CAS: 115-10-6 EC: 204-065-8	Fresh water	160 mg/L	0,155 mg/L	
	Marine water	0,045 mg/kg	0,016 mg/L	
	Sediment (Fresh water)	1,549 mg/L	0,681 mg/kg	
	Sediment (Marine water)	Non-applicable	0,069 mg/kg	
2,2'-dimorpholinyl-diethyl ether CAS: 6425-39-4 EC: 229-194-7	Fresh water	100 mg/L	0,1 mg/L	
	Marine water	1,58 mg/kg	0,01 mg/L	
	Sediment (Fresh water)	1 mg/L	8,2 mg/kg	
	Sediment (Marine water)	10 g/kg	0,82 mg/kg	

Engineering Controls

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the professional exposure limits.

Personal Protection Equipment



Eyes	Safety glasses with side shields. Avoid wearing contact lenses.
Hands and Skin	NON-disposable chemical protective gloves. Disposable clothing for protection against chemical risks, with antistatic and fireproof properties. Safety footwear for protection against chemical risk, with antistatic and heat resistant properties.
Respiratory	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. If exposure levels are likely to be exceeded, use a full face mask fitted with an organic AXP3 filter for short term low level exposures. For long term or high level exposures, compressed airline breathing apparatus should be used.
Hygiene measures	DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

Section 9 Physical and Chemical Properties

Appearance	Aerosol
Odour	Characteristic

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Odour Threshold	Not applicable
pH	Not applicable
Boiling Point	342°C
Melting Point	Not applicable
Freezing Point	Not applicable
Flash Point	Not applicable
Flammability	Flammable aerosol
Upper and Lower Explosive Limits	Not applicable
Vapour Pressure	Not available
Density @ 20°C	1188 kg/cm ³
Relative Density @ 20°C	1.188
Solubility in water	Not applicable
Partition Coefficient:	Not applicable
Auto-ignition Temperature	240°C (propellant)
VOC(Supply)	13.23% weight
VOC density @ 20°C	157.2 kg/m ³
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.
Incompatible Materials	Combustible materials
Hazardous Decomposition Products	carbon dioxide (CO ₂), carbon monoxide and other organic compounds.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Harmful if swallowed.
Dermal	Not applicable.
Inhalation	Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes respiratory irritation.
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	Not applicable.
STOT/RE	Causes damage to organs through prolonged or repeated exposure.

Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

Bioaccumulative potential:

Identification	Bioaccumulation potential	
Isobutane	BCF	27

Product Name: Sabrefix LF
Date of SDS: 16 October 2025

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CAS: 75-28-5 EC: 200-857-2	Pow Log	2,76
	Potential	Low
Propane CAS: 74-98-6 EC: 200-827-9	BCF	13
	Pow Log	2,86
	Potential	Low
Butane CAS: 106-97-8 EC: 203-448-7	BCF	33
	Pow Log	2,89
	Potential	Moderate
2,2'-dimorpholinyl-diethyl ether CAS: 6425-39-4 EC: 229-194-7	BCF	3
	Pow Log	
	Potential	Low

Mobility in soil:

Identification	Absorption/desorption		Volatility	
Isobutane CAS: 75-28-5 EC: 200-857-2	Koc	35	Henry	1,206E+5 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	9840 N/m (25 °C)	Moist soil	Yes
Dimethyl ether CAS: 115-10-6 EC: 204-065-8	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	11360 N/m (25 °C)	Moist soil	Non-applicable
Propane CAS: 74-98-6 EC: 200-827-9	Koc	460	Henry	7,164E+4 Pa·m ³ /mol
	Conclusion	Moderate	Dry soil	Yes
	Surface tension	7020 N/m (25 °C)	Moist soil	Yes
Butane CAS: 106-97-8 EC: 203-448-7	Koc	900	Henry	9,626E+4 Pa·m ³ /mol
	Conclusion	Low	Dry soil	Yes
	Surface tension	11870 N/m (25 °C)	Moist soil	Yes
2,2'-dimorpholinyl-diethyl ether CAS: 6425-39-4 EC: 229-194-7	Koc	786	Henry	2E-9 Pa·m ³ /mol
	Conclusion	Low	Dry soil	No
	Surface tension	Non-applicable	Moist soil	No

Persistence and degradability	Not data available
Other adverse effects	No data available

Section 13. Disposal Considerations

Disposal Method: Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Non-emptied aerosol: Dispose of wastes in an approved waste disposal facility.

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: NZS 5433:2020



Road, Rail, Sea and Air Transport

UN No	1950
Class - Primary	2.1
Proper Shipping Name	AEROSOLS, FLAMMABLE
Marine Pollutant	No
Special Provisions	If the product's individual container is below 1L/kg, it can be transported as a non-DG as long as the product packaging is still

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labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.
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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.

Not classified as a Scheduled 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 2020

EPA Approval Code: Aerosols (Flammable, Carcinogenic) - HSR002517

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	3000 L (AWC)
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	3000 L (AWC)
Emergency Response Plan	1000L
Secondary Containment	1000L
Fire Extinguisher	3000 L (AWC)
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 FEB 2025 15th 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.

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