

MATERIAL SAFETY DATA SHEET

Date of Issue: 20.10.2016

SISALATION® VAPAWRAP™

Section 1: Identification of the material and supplier

Product name:	Sisalation® Vapawrap™ Metal Roof & Sisalation® Vapawrap™ Walls
Product use:	Use as a breathable membrane in wall, floors and metal roofs of residential, commercial and industrial buildings.
Supplier name:	Fletcher Insulation Pty Ltd
Address:	600 Woodstock Ave, Rooty Hill NSW 2766
Telephone number:	1300 654 444
Emergency telephone:	+61 2 9752 9200

Section 2: Hazards identification

NON HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.
According to NOHSC Criteria, and ADG Code.

Poisons schedule	Not applicable
Classification	Not applicable
Label elements	
GHS label elements	Not applicable
SIGNAL WORD	NOT APPLICABLE

Section 3: Composition/information on ingredients

Ingredient (common name)	CAS Number	Proportion
Bi-co	-	54%
Woven	-	24%
Breathable	-	22%

Section 4: First aid measures

Eyes contact	<p>If this product comes in contact with eyes:</p> <ul style="list-style-type: none">• Wash out immediately with water.• If irritation continues, seek medical attention.• Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin contact	<p>If skin or hair contact occurs:</p> <ul style="list-style-type: none">• Flush skin and hair with running water (and soap if available).• Seek medical attention in event of irritation.
Inhalation	<ul style="list-style-type: none">• If fumes, aerosols or combustion products are inhaled remove from contaminated area.• Other measures are usually unnecessary.

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Ingestion	Not considered a normal route of entry.
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Indication of any immediate medical attention and special treatment needed
 NOTES TO PHYSICIAN: Treat symptomatically.

Section 5: Firefighting measures

Extinguishing media:	<ul style="list-style-type: none"> • Foam. • Dry chemical powder. • BCF (where regulations permit). • Carbon dioxide. • Water spray or fog - Large fires only.
Special hazards arising from the substrate or mixture	
Fire incompatibility	Avoid contamination with strong oxidising agents as ignition may result.
Advice for firefighters	
Fire fighting	<ul style="list-style-type: none"> • Alert Fire Brigade and tell them location and nature of hazard. • Wear breathing apparatus plus protective gloves. • Prevent, by any means available, spillage from entering drains or water courses. • Use water delivered as a fine spray to control fire and cool adjacent area. • 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. • Equipment should be thoroughly decontaminated after use.
Fire / Explosion Hazard	<p>Combustible. NOTE: Burns with intense heat. Produces melting, flowing, burning liquid and dense acrid black smoke. Decomposes on heating and produces toxic fumes of: carbon monoxide (CO), carbon dioxide (CO₂), sulfur dioxide (SO₂), formaldehyde, acrolein.</p>
HAZCHEM	Not applicable.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12


Methods and material for containment and cleaning up	
Minor Spills	<ul style="list-style-type: none"> • Clean up all spills immediately. • Secure load if safe to do so. • Bundle/collect recoverable product. • Collect remaining material in containers with covers for disposal.
Major Spills	<ul style="list-style-type: none"> • Minor hazard. • Clear area of personnel. • Alert Fire Brigade and tell them location and nature of hazard. • Wear physical protective gloves e.g. Leather. • Contain spill/secure load if safe to do so. • Bundle/collect recoverable product and label for recycling. • Collect remaining product and place in appropriate containers for disposal. • Clean up/sweep up area. • Water may be required.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

Section 7: Handling and storage

Precautions for safe handling	
Safe handling	<ul style="list-style-type: none"> • Limit all unnecessary personal contact. • Wear protective clothing when risk of exposure occurs. • Use in a well-ventilated area. • When handling DO NOT eat, drink or smoke. • Always wash hands with soap and water after handling. • Avoid physical damage to containers. • Use good occupational work practice. • Observe manufacturer's storage and handling recommendations contained within this SDS.
Other information	<ul style="list-style-type: none"> • Store in original containers. • Keep containers securely sealed. • No smoking, naked lights or ignition sources. • Store in a cool, dry, well-ventilated area. • Store away from incompatible materials and foodstuff containers. • Protect containers against physical damage and check regularly for leaks. • Observe manufacturer's storage and handling recommendations contained within this SDS.
Conditions for safe storage, including any incompatibilities	
Suitable container	Store in original containers. Material is supplied in a roll form.
Storage incompatibility	Avoid storage with oxidisers

Section 8: Exposure controls/personal protection

Exposure Controls	
Appropriate engineering controls	General exhaust is adequate under normal operating conditions.
Personal protection	
	
Eye and face protection	<ul style="list-style-type: none"> • Safety glasses with side shields; or as required, • Chemical goggles. • Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	Wear impervious gloves. • Safety footwear
Body protection	See Other protection below
Other protection	<ul style="list-style-type: none"> • Overalls. • Eyewash unit.
Thermal hazards	Not Available

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

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Section 9: Physical and chemical properties

Information on basic physical and chemical properties			
Appearance	Spun bonded non-woven		
Physical state	Manufactured	Relative density (Water = 1)	Not applicable
Odour	Not applicable	Partition coefficient n-octanol / water	Not applicable
Odour threshold	Not applicable	Auto-ignition temp (°C)	Not applicable
pH (as supplied)	Not applicable	Decomposition temp (°C)	120
Melting / freezing point (°C)	Not applicable	Viscosity (cSt)	Not applicable
Initial boiling point and boiling range (°C)	Not applicable	Molecular weight (g/mol)	Not applicable
Flash point (°C)	Not applicable	Taste	Not applicable
Evaporation rate	Not applicable	Explosive properties	Not applicable
Flammability	Not applicable	Oxidising properties	Not applicable
Upper explosive limit (%)	Not applicable	Surface tension (dyn/cm or mN/m)	Not applicable
Lower explosive limit (%)	Not applicable	Volatile component (%vol):	Not applicable
Vapour pressure (kPa)	Not applicable	Gas group	Not applicable
Solubility in water (g/L)	Not soluble	pH as a solution (1%)	Not applicable
Vapour density (air=1)	Not applicable	VOC g/L	Not applicable

Section 10: Stability and reactivity

Reactivity	See section 7
Chemical Stability	<ul style="list-style-type: none"> Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	Heating to over 120°C
Incompatible materials	None
Hazardous decomposition products	When heated above 120°C, the adhesive may break down releasing chlorine & hydrogen chloride.

Section 11: Toxicological information

Information on toxicological effects

Ingestion	Not normally a hazard due to physical form of product.
Eye	Not normally a hazard due to physical form of product. Generated dust may be discomforting.
Skin contact	Not normally a hazard due to physical form of product. Sharp edges on freshly slit material can cause superficial cuts.
Inhaled	Not normally a hazard due to non-volatile nature of product. Generated dust may be discomforting.
Toxicity and Irritation	Not available

Section 12: Ecological information

Toxicity	Persistence and degradability	Air persistence	Bioaccumulation	Mobility
Not applicable	No data available for all ingredients	No data available for all ingredients	No data available for all ingredients	No data available for all ingredients

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 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 consideration

Product / packaging disposal	Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Bury residue in an authorised landfill. Recycle containers if possible, or dispose of in an authorised landfill.
Ecotoxicity	No known reports of ecotoxicity.
Persistence and Degradability	Product would be expected to be of low bio-degradability and persistent in the environment.
Mobility	Low mobility in landfill situation.

Section 14: Transport information

Marine pollutant	NO
Hazchem	Not applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
Transport in bulk according to Annex II of MARPOL and the IBC code
Not Applicable

Section 15: Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	Y
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Y
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

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Section 16: Other information

Additional Information and Reference Documents
<p>Poisons Information Centre 13 11 26 (Australia Wide)</p> <p>Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.</p> <p>A list of reference resources used to assist the committee may be found at: www.chemwatch.net</p> <p>The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.</p> <p>This document is copyright.</p> <p>Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.</p> <p>TEL (+61 3) 9572 4700.</p>

Australian Standards References:
<p>AS/NZS 1336 Recommended practices for occupational eye protection. AS/NZS 1715 Selection, use and maintenance of respiratory protective devices. AS/NZS 1716 Respiratory protective devices. AS/NZS 2161 Occupational protective gloves.</p> <p>This MSDS was correct at the time it was prepared (see below for the date). The Supplier, as part of its Health and Safety Programme, updates MSDS's when its ongoing review process indicates a need for a change to be made. You should make sure that the MSDS you are reading and relying on is current. You can do this by contacting the Supplier at the above address.</p>
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