



FYREWWRAP ELITE

SAFETY DATA SHEET

Date of issue: 12.04.2019

according to WHS Regulations

SDS 18.38

1. IDENTIFICATION OF MATERIAL & SUPPLIER

Brand Name: FYREWWRAP

CAS No: 436083-99-7

Other Means of Identification

Product Names:

Fyrewrap, Fyrewrap Elite, Fyrewrap 1.5, Fyrewrap 1.5 Duct insulation, Fyrewrap Elite 1.5, Fyrewrap 0.5 Plenum insulation, Fyrewrap Plenum insulation, Fyrewrap 1.5 Cable insulation, Fyrewrap 2.0 Cable insulation, Fyrewrap Cable insulation, Fyrewrap Structural blanket, Fyrewrap Core

Chemical Names:

Calcium Magnesium Silicate Fiber

Recommended Use of the Chemical and Restriction on Use

Industrial / Professional use spec
Use of the substance

For professional use only
Application as thermal insulation, heat shields, heat containment, gaskets and expansion joints in industrial furnaces, ovens, kilns, boilers and other process equipment and in the aerospace, automotive and appliance industries, and as passive fire protection systems and fire stops.

Manufacturer/Supplier:

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Tel: +61 3 9463 7100

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Emergency Telephone Number: 0419576681 (Lissa Glasson)

Product Stewardship Information Hotline: 1-800-322-2293 (Monday - Friday 8:00 - 4:30 EST (USA))



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2. HAZARD(S) IDENTIFICATION

Classification according to Regulation (EC) No> 1272/2008 (CLP)

Not Classified

Adverse Physiochemical, Human health and Environmental effects

No additional information available

Labelling requirements

No labelling applicable

Other Hazards which do not result in Classification:

Mild mechanical irritation to skin, eyes and upper respiratory system may result from exposure. These effects are usually temporary.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Components

Name	CAS	Proportion
AES wool Synthetic Fibers Alkaline Earth Silicate	436083-99-7	96 - 99%

Non Hazardous Components

Name	CAS	Proportion
Aluminium Foil with MMMF Reinforcement and inorganic adhesive	-	2 - 4%

Other Information:

Remaining components not determined to be hazardous and/or hazardous components present at less than 1.0% (0.1% for carcinogens)

This product is not asbestos and does not contain any asbestos

Composition:

Fyrewrap consists fo AES wool: containing (SiO₂) 60-70% and a (CaO + MgO) of 30-40%
*CAS definition: Alkaline earth silicate (AES) consisting of silica (50-82 wt%), calcia and magnesia (18-43 wt%), alumina, titania and zirconia (less than 6 wt%) and trace oxides

Description:

Fyrewrap can be in standard form or encapsulated with aluminium foil



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4. FIRST AID MEASURES

Inhalation:	If inhaled, remove to fresh air.
Skin Contact:	In case of skin contact, remove clothing and wash affected area gently with water and soap. Do not scrub or scratch exposed skin. Using a skin cream or lotion after washing may be helpful in reducing irritation. Seek medical attention if symptoms occur
Eye Contact:	In case of eye contact, rinse with large amount of water for several minutes. Do not rub eyes. Seek medical attention if symptoms persist
Ingestion:	If swallowed, do not induce vomiting. Drink plenty of water. Seek medical attention if symptoms occur
Advice to doctor:	Acute effects are essential irritant in nature. Refer to 'OTHER INFORMATION' section for long term exposures.
Symptoms Caused by exposure:	Skin: May cause mechanical irritation Eye: May cause mechanical eye irritation

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	The product is not flammable. Use extinguishing media appropriate for surrounding fire. Foam, Dry powder, Carbon dioxide, Water spray
Hazchem Code:	None Allocated.
Protection during Fire fighting:	Do not enter the area without proper protective equipment, including respiratory protection

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear approved dust/ particulate filter respirator and full protective clothing. Evacuate all non-essential personal from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

Environmental Precautions

In the event of a major spill, prevent spillage from entering drains or water courses



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Methods and Materials for Containment and Cleaning up

Pick up large pieces and clean up small pieces and dust with vacuum or by a wet sweeping technique. Do not use compressed air. Avoid clean up procedures that may result in water pollution

7. HANDLING & STORAGE

Precautions for safe handling:

Avoid contact with skin and eyes. Use PPE as required. Obtain special instructions before use. Do not eat, drink or smoke when using this product. Clear contaminated areas thoroughly. Ensure good ventilation of the work station.

All installation practices should be designed to minimise the liberation of any airborne dust or fiber

The product is to be stored in sealed plastic bags or similar until ready for installation.

If cutting or drilling of this product is necessary, use local extraction systems

Empty Store bags should be folded and stored/sealed in a container along with other waste material.

Upon completion the work area must be adequately cleaned. Industrial vacuum cleaning is recommended but wet mopping or wiping may be used if vacuuming is not practical

Hygiene measures:

Always wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work

Storage:

Store tightly in cool dry place. Store in a manner that minimizes dust generation. Keep away from food, drink and animal feeding stuffs

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Standards:

436083-99-7 FYREWRAP

WES	TWA: 2 fibers/ml (respirable)/ 5mg/m ³ (inhalable dust) - Workplace exposure limit
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Engineering Controls:

Ensure adequate ventilation of the working area.

Respiratory Protection:

Where an inhalation risk exists, wear a Class P1 (particulate) respirator. At high dust levels, wear a powered air purifying respirator (PAPR) with Class P3 (Particulate) filter or an air-line respirator or a full-face Class P3 (particulate) respirator. See Australian/ New Zealand Standards AS/NZS 1715 and 1716 for more information

Skin Protection:

The code of practice for the safe use of synthetic mineral fibers (1990) recommends disposable overalls or long sleeved loose fitting clothing. See AS/NZS 2161 for more information. If launderable clothing is worn it should be washed separately from other clothing. Protective gloves are also recommended. See AS/NZS 2161 for more information. When selecting hand protection, the product should comply with relevant performance criteria. For example gloves should meet a suitable level of abrasion resistance to provide protection against hazards of a workplace.

Eye and Face Protection:

Eye and Face protection against dust. See AS/NZ 1337 for more information

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Solid
Form	Fibrous material
Colour	White
Odour:	Odourless
Odour threshold	No information available
pH-value:	Not applicable
Melting Point	1300°C
Boiling Point	No information available
Flash point	Not applicable
Flammability	Product is not flammable
Auto-ignition Temperature	No information available
Decomposition temperature	No information available
Explosive properties	No information available
Vapour Pressure	Not applicable
Specific Gravity	2.6 g/cm ³
Solubility in Water	No information available



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Evaporation Rate	No information available
Other Properties	Length weighted geometric mean diameter of fibres contained in the product: 1.9 - 6 microns

10. STABILITY & REACTIVITY

Reactivity	Stable under normal conditions of use
Chemical Stability	Stable under normal handling and storage conditions
Hazardous reactions	No dangerous reactions known
Conditions to avoid	No further information available
Incompatible materials	None
Hazardous decomposition products	Under normal storage conditions, hazardous decomposition products should not be produced

11. TOXICOLOGICAL INFORMATION

Acute Health Effects

Inhalation	Not Classified
Skin	Not Classified
Eye:	Not Classified
Ingestion:	Not Classified
Germ Cell Mutagenicity	Not Classified
Specific target toxicity (Single & repeated exposure)	Not Classified

Carcinogenicity Not Classified (Based on available data)

Additional Information

When tested using approved methods (Directive 67/548/EC, Annex V, Method B4), fibres contained in this material gave negative results. All man-made mineral fibres, like some natural fibres, can produce a mild irritation resulting in itching or rarely, in some sensitive individuals, in slight reddening. Unlike other irritant reactions this is not the result of allergy or chemical skin damage but is caused by a temporary mechanical effect.

Other Animal Studies

These materials have been designed to allow rapid clearance from tissue. And this low bio-persistence has been confirmed in many studies using EU protocol ECB/TM/27(rev 7) and the German method specified in TRGS 905 (1999). When inhaled, even at very high doses, they do not accumulate to any level capable of producing a serious adverse biological effect. In lifetime chronic studies there was no exposure-related effect more than would be seen with any "inert" dust. Subchronic studies at the highest doses achievable produced, at worst, a transient mild inflammatory response. Fibres with the same ability to persist in tissue do not produce tumours when injected into the peritoneal cavity of rats.



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12. ECOLOGICAL INFORMATION

Ecotoxicity	No further relevant information available
Aquatic toxicity	No further relevant information available
Bioaccumulative Potential	No further relevant information available
Mobility in soil	No further relevant information available
Other adverse effects	No further relevant information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal:	Waste shall be placed in containers, plastic bags or other methods which will prevent Fiber and/or dust emission, and disposed of in accordance with the local waste disposal authority requirements.
Precautions for Landfill:	There may be specific regulations at the Local, State or Federal level that pertain to this material.

14. TRANSPORT INFORMATION

No special transport requirements are necessary.

UN Number	Not Regulated
Shipping Name	Not Regulated
DG Class	Not Regulated
Packaging Group	Not Regulated
Hazchem Code	None Allocated
Poisons Schedule	Not Scheduled

15. REGULATORY INFORMATION

Australian Inventory of Chemical Substances:	This chemical is not found in AICS
Standard for the Uniform Scheduling of drugs and poisons (SUSMP)- Poison Schedule:	Not Scheduled
Other information:	AES fibers are not on the REACH Candidate list

Fiber type definition under directive 67/548/EEC

According to directive 67/548/EEC Fiber contained in this product is a mineral wool belonging to the group of "man-made vitreous (silicate) fibers with random orientation with alkaline earth oxide (



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Na₂O+K₂O+CaO+MgO+BaO) content greater to 18% by weight"

Under criteria listed in nota Q of Directive 67/548/EEC, fibers contained in the products listed in the title are exonerated from carcinogen classification because of low pulmonary bio persistence measured by the methods specified in European Union and German regulations (EU Protocol ECBT/TM/27 (REv7)

31st Adaptation to Technical Progress of Directive 67/548/EEC of 15 January 2009 has removed skin irritancy classification for man-made vitreous (silicate) wools.

16. OTHER INFORMATION

Abbreviations and acronyms

GHS: Globally Harmonised system of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of American Chemical society
IARC: International agency for Research on Cancer
TWA: Time weighted average
NES: National exposure standard

References:

Replaces MSDS Dated 29.01.2018 Date of Preparation: 12.04.2019
Authorised by : L Glasson Last Revision: 12.04.2019

DISCLAIMER:

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