

BOSS FastWrap-XLS™

Safety Datasheet

BOSS FASTWRAP-XLS™

Issue Date: 25 February 2025
Review Date: 25 February 2030

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1. SUBSTANCE IDENTIFICATION

Product Name	BOSS FastWrap-XLS™, FastWrap-XLS, FastMaster FastWrap XLS
Product Form	Wrap
Prescribed Use	Application as thermal insulation, heat shields, heat containment, gaskets and expansion joints in industrial furnaces, ovens, kilns, boilers and other process.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance/ mixture

2.1.1 Classification according to safework australia

Not classified as hazardous according to the criteria of Safework Australia
Not classified as a dangerous good according to the criteria of the ADG Code

2.1.2 Classification according to ghs rev 7.

Not classified

2.2. Labelling Elements

Not applicable

2.3. 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

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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

COMPONENT	% byweight	CAS No.	REACH Registration Number	Hazard Classification according to CLP
Alkaline-earth silicatewools	100	436083-99-7	01-2119457644-32	Note Q Exonerated
Aluminium foil	0-15	7429-90-5	01-2119529243-45	Not yet available
Inert water repellent	<0.5	Not Applicable	Not yet available	Not yet available

Composition:

* 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.

IT IS STATED that these fibres comply with the TERMS of the “NOTE Q” of EUROPEAN COMMISSION regulation EC1272/2008 of 16 December 2008

None of the components are radioactive under the terms of European Directive Euratom 96/29.

SECTION 4 - FIRST-AID MEASURES

Skin	Handling of this material may generate mild mechanical temporary skin irritation. If this occurs, rinse affected areas with water and wash gently. Do not rub or scratch exposed skin.
Eyes	In case of eye contact flush abundantly with water; have eye bath available. Do not rub eyes. Seek medical attention if irritation persists.
Nose and Throat	If these become irritated move to a dust free area, drink water and blow nose. Seek medical attention if irritation persists.

If symptoms persist, seek medical advice.

4.2 - Most Important symptoms and effects, both acute and delayed

No symptoms or effects expected either acute or delayed

4.3 - Indication of any immediate medical attention and special treatment required

No special treatment required, if exposure occurs wash exposed areas to avoid irritation.

SECTION 5 - FIRE-FIGHTING MEASURES

Extinguishing media	Use extinguishing agent suitable for surrounding combustible materials.
Special hazards arising from the substance or mixture	Non-combustible products.
Advice for firefighters	Packaging and surrounding materials may be combustible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	<p>Where abnormally high dust concentrations occur, provide the workers with appropriate protective equipment as detailed in section 8. Restore the situation to normal as quickly as possible.</p>
Environmental precautions	<p>Prevent further dust dispersion for example by damping the materials. Do not flush spillage to drain and prevent from entering natural watercourses. Check for local regulations, which may apply</p>
Methods and materials for containment and clean up	<p>Pick up large pieces and use a vacuum cleaner. If brushes are used, ensure that the area is wetted down first. Do not use compressed air for clean up. Do not allow to become windblown.</p>
Reference to other sections	<p>For further information, please refer to sections 7 and 8</p>

7. HANDLING AND STORAGE

Precautions for safe handling	<p>Handling can be a source of dust emission and therefore the processes should be designed to limit the amount of handling. Whenever possible, handling should be carried out under controlled conditions (i.e., using dust exhaust system). Regular good housekeeping will minimise secondary dust dispersal.</p>
Conditions for safe storage	<p>Store in original packaging in a dry area. Always use sealed and clearly labelled containers. Avoid damaging containers. Reduce dust emission during unpacking.</p>
Specific end use	<p>The main application of these products is as thermal insulation. Please refer to your local Morgan Thermal Ceramics' supplier.</p>

8. Risk Management Measures / Exposures Controls / Personal Protection

8.1 - Control parameters

Industrial hygiene standards and occupational exposure limits vary between countries and local jurisdictions. Check which exposure levels apply to your facility and comply with local regulations. If no regulatory dust or other standards apply, a qualified industrial hygienist can assist with a specific workplace evaluation including recommendations for respiratory protection. ThermalCeramics recommend that where no regulatory limits are in place customers follow the NIOSH recommendations as laid out below.

COUNTRY	MMMF (fibre/ml)	Source
India	No Limit Set	Directorate General Factory Advice Service & Labour Industries (DFGASLI)
China		GBZ 2.1-2019
Japan	1	The Japan Society for Occupational Health (JSOH)
Korea	(10 mg/m ³)	K-OSHA Value
UAE	2	Abu Dhabi Occupational Safety and Health System Framework (OSHAD-SF) v3.0 July 2016
Australia	2 (or 2mg/m ³ inhalable)	Workplace exposure limits for airborne contaminants October 2024

Information on monitoring procedures

United Kingdom

MDHS 59 specific for MMVF: “Man-made mineral fibre - Airborne number concentration by phase-contrast light microscopy” and MDHS 14/4 “General methods for sampling and gravimetric analysis of respirable and inhalable dust”

NIOSH

NIOSH 0500 “Particulates not otherwise regulate, total”

NIOSH 0600 “Particulates not otherwise regulate, respirable”

NIOSH 7400 “Asbestos and other fibres by PCM”

8.2 Control parameters

<p>Appropriate engineering controls</p>	<p>Review your applications in order to identify potential sources of dust exposure.</p> <p>Local exhaust ventilation, which collects dust at source, can be used. For example down draft tables, emission controlling tools and materials handling equipment.</p>
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Keep the workplace clean. Use a vacuum cleaner. Avoid brushing and compressed air.

If necessary, consult an industrial hygienist to design workplace controls and practices.

The use of products specially tailored to your application(s) will help to control dust. Some products can be delivered ready for use to avoid further cutting or machining. Some could be pre-treated or packaged to minimise or avoid dust release during handling.

Consult your supplier for further details.

8.2.1 Personal Protective Equipment



<p>Skin Protection</p>	<p>Wear gloves and work clothes, which are loose fitting at the neck and wrists. Soiled clothes should be cleaned to remove excess fibres before being taken off (e.g. use vacuum cleaner, not compressed air). Wash work clothes separately from other clothing.</p>
<p>Eye Protection</p>	<p>As necessary wear goggles or safety glasses with side shields.</p>
<p>Respiratory Protection</p>	<p>For dust concentrations below the exposure limit value, RPE is not required but FFP2 respirators may be used on a voluntary basis. For short-term operations where excursions are less than ten times the limit value use FFP2 respirators.</p>

In case of higher concentrations or where the concentration is not known, please seek advice from your company and/or local Thermal Ceramics supplier.

Information and training of workers

Workers should be trained on good working practices and informed on applicable local regulations.

8.2.2 Environmental Exposure Controls

Refer to local, national or European applicable environmental standards for release to air water and soil. For waste, refer to section 13

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties	Not applicable
State	White Fibre
Colour	White
Odour	None
Odour threshold	Not Applicable
pH	Not applicable
Melting point/freezing point	> 1200°C
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not Applicable
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	Not applicable
Vapour density	Not Applicable
Relative density	50-240 kg/m ³
Solubility(ies)	Less than 1 mg/l
Partition co-efficient: n-octanol/water	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not Applicable
Viscosity	Not Applicable
Particle Characteristics	Fibres within this product have a GMD of 2.5 - 5.0µm
Explosive properties	Not applicable
Oxidising properties	Not applicable

10. STABILITY AND REACTIVITY

Reactivity	AES is stable and non reactive.
Chemical Stability	AES is inorganic, stable and inert.
Possibility of Hazardous Reactions	None
Conditions to Avoid	Please refer to handling and storage advice in Section 7
Incompatible Materials	None
Hazardous decomposition products	Upon heating above 900°C for sustained periods, this amorphous material begins to transform to mixtures of crystalline phases. For further information please refer to Section 16.

11. TOXICOLOGICAL INFORMATION

Basic Toxicokinetics	<p>Exposure is predominantly by inhalation or ingestion. Man made vitreous fibres of a similar size to AES have not been shown to migrate from the lung and/or gut and do not become located in other organs of the body.</p> <p>Fibres contained in the products listed in the title have been designed to be rapidly cleared from lung tissue. This low biopersistence has been confirmed in many studies on AES using EU protocol ECB/TM/27(rev 7). When inhaled, even at very high doses, they do not accumulate to any level capable of producing a serious adverse biological effect.</p>
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11.1 - Information on hazard classes as defined in Regulation (EC) No 1272/2008

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.

11.2 Information on other hazards

Endocrine disrupting properties: no known effects.

Other hazards:

Superwool fibres are negative when tested using approved methods (OECD TG 404). Like all man-made mineral fibres and some natural fibres, fibres contained in this product can produce a mild mechanical irritation resulting in temporary itching or rarely, in some sensitive individuals, in a slight temporary reddening. Unlike other irritant reactions this is not the result of allergy or chemical skin damage but is caused by mechanical effects.

12. ECOLOGICAL INFORMATION

Toxicity	<p>These products are insoluble materials that remain stable overtime and are chemically identical to inorganic compounds found in the soil and sediment; they remain inert in the natural environment.</p> <p>No adverse effects of this material on the environment are anticipated.</p>
Persistence and Degradability	Not established.
Bioaccumulative Potential	Not established.
Mobility in Soil	No information available.
Results of PBT and vPvB assessment.	This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
Endocrine Disrupting Properties	No additional information available.
Other adverse effects	No additional information available.

13. DISPOSAL CONSIDERATIONS

To prevent waste materials from becoming airborne during waste storage, transportation and disposal, a covered container or plastic bagging is recommended.

Waste from these materials (even after use above 900°C) is not generally classified as hazardous waste and may be disposed of at a normal tipping site which has been licensed for the disposal of industrial waste. Taking into account any possible contamination during use, which may be classified as hazardous, expert guidance should be sought.

Such a waste is normally dusty (unless wetted) and so should be properly bagged and clearly labelled for disposal. At some tip sites dusty waste may be treated differently in order to ensure they are dealt with promptly and to avoid them being windblown.

Check for national and /or regional regulations to identify all applicable disposal requirements.

14. TRANSPORT INFORMATION

UN number	Not Applicable.
UN proper shipping name	Not Applicable.
Transport hazard class(es)	Not Applicable.
Packing group	Not Applicable.
Environmental hazards	Not Applicable.
Special precautions for user	Not Applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not Applicable.

15. REGULATORY INFORMATION

Regulatory Information	This SDS has been prepared in accordance with WHO GHS rev. 7 requirements. Where applicable, local regulations have been followed.
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16. OTHER INFORMATION

ADDITIONAL INFORMATION AND PRECAUTIONS TO BE CONSIDERED UPON REMOVAL OF AFTER SERVICE MATERIAL

NOTE: This Safety Data Sheet was originally produced in English and has subsequently been translated in to other languages; whilst every effort has been

LIMITATION

BOSS Passive Fire Pty Ltd has provided the above technical information in good faith and to the best of its knowledge. This information was deemed to be correct at the time of publication. Should any data come to BOSS Passive Fire's attention relating to the fire resistance or performance of the product described BOSS Passive Fire reserve the right to amend this report.

BOSS Passive Fire strive to constantly improve and develop products so this information may change without notice.

The information contained herein has been developed as a guide only and it does not constitute a guarantee of compliance of all applications. Each project and/or application may have specific requirements and you should investigate these carefully. Ensure that you have read and understood the appropriate certification relative to your needs, and ensure you seek acceptance from the Certifying Authority or compliance inspector before installation. For updates on the range of BOSS Fire® certification please contact BOSS Technical Services.

FURTHER INFORMATION

For additional technical information on the performance of FastWrap-XLS™, other BOSS Fire® products or any other BOSS Fire® related information please contact us on:

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