

MATERIAL SAFETY DATA SHEET

Issue: No. 01

Date: August 10, 2011

SECTION 1 IDENTIFICATION OF PREPARATION AND THE COMPANY

Product name / codes:

Alumina fibre paper,

Codes: AL-2, AL-4, AL-8, AL-12

Intended Use:

Professional use only.

High temperature thermal insulation

Company:

F-K Fiber Products(UK) Ltd,

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Under the European chemicals Regulations 1907/2006 REACH the non woven products listed above are considered to be articles-see Chapter 2, Art. 3-Definition, Para 3. The materials do not contain any substances of very high concern or substances intended to be released under normal foreseeable conditions of use.

Under the above regulations Safety Data Sheets are only required for hazardous substances and our sub-contract paper-maker is not therefore legally obliged to supply Safety Data Sheets. It has nevertheless provided the following information regarding the safe use and handling of the products listed above for, and by means of, this MSDS.

SECTION 2 - HAZARDS IDENTIFICATION

Hazard Statements:

- 1) None for the non-woven products (manufactured articles) covered by this MSDS.
- 2) Dust and fibres released during processing will include up to 10% of material classed as Carcinogen Category 2, H351i-Suspected of causing cancer by inhalation

Cutting through the material and surface scuffing may release small amounts of airborne alumina and glass wool fibres and dusts which maybe mechanically irritant to the skin and eyes or irritant to the upper respiratory system.

Based on animal studies, excessive exposure to man made mineral fibre dust may cause lung damage (fibrosis) and tumours.

As with any dust, pre-existing upper respiratory and lung diseases may be aggravated.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Composition :

Substance	CAS / EC No	% By Weight	Classification and Labelling Regulation EC 1272/2008	Classification and Labelling Directive 67/548/EEC
Alumina fibre ¹	1344-28-17 215-691-6	80-97	Not Classified	Not Classified
C - Glass Wool ²	65997-17-3/266-046-0	0.0- 10.0	Carcinogen Category 2 H351 i — inhalation	Carcinogen Category 3 Xn : Harmful R40
Polymeric binder	N/A - polymer	3.0-10.0	Not Classified	Not Classified

1) Aluminium (III) oxide 96-97%, SiO₂ 3-4 % by weight

2) Man-made vitreous silicate fibres of random orientation with alkaline oxide and alkali earth oxides (Na₂O + K₂O + CaO + MgO + BaO) content greater than or 1 equal to 18 % by weight

SECTION 4 - FIRST AID MEASURES

Skin: Rinse affected areas with water and wash gently with soap. Do not use detergent.

Eyes: Flush eyes with large quantities of water. Have eye bath readily available in areas where eye

contact may occur. Seek medical attention if irritation continues.

Ingestion: Seek medical advice. Do not induce vomiting.

Inhalation: Remove to fresh air, clear throat and blow nose to evacuate dust and fibre, drink water.
Seek medical attention if symptoms persist.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Use extinguishing agent suitable for type of surrounding combustible materials.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Do not allow dust and fibres to be wind blown
Unwanted product should be collected and stored in sealed bags.

Do not use compressed air to remove dust or fibres from clothing or equipment

Dust and fibre deposits should be collected using a vacuum cleaner fitted with HEPA exhaust air filtration. The collected deposits and used vacuum cleaner bags should be sealed into poly bags before disposal.

If sweeping is required the area should be thoroughly damped down with water before sweeping starts to prevent fibres and dust becoming airborne during sweeping.

SECTION 7 - HANDLING AND STORAGE

Handling: Keep dust generation to a minimum.

Storage: Store dry and cool.
Keep in original wrapping until required for use.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Applicable Workplace Exposure Limits from HSE EH40/2005 and supplement Oct 2007.

Machine made mineral fibres
(excluding Refractory Ceramic and Special Purpose fibres) : MEL 2.0 fibres/ml & 5 mg/m³ (8 hr
TWA)

Respiratory Protection: Use local exhaust ventilation where available to control airborne fibre levels.
Disposable dust respirator to EN 149:2002 FFP2 minimum

Hand Protection: Use of gloves is recommended

Eye Protection: Wear goggles or safety glasses with side shields. Do not wear contact lenses.

Skin Protection: Wear overalls that are loose fitting at the neck and wrists.
Wash overalls separate from other clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White paper or felt.

Density: 90-210kg/m³

Flammability: Material will burn for a short period only until the organic binder is burnt out.

SECTION 10 - STABILITY AND REACTIVITY

Stability/Conditions to avoid: Stable

Materials to avoid: Concentrated mineral acids or bases.

Hazardous decomposition products: Decomposition of the polymeric binder will occur at temperatures above 200°C releasing smoke, H₂O, CO, CO₂ and hydrocarbons. The duration and the amount of the release will depend upon the applied temperature, the thickness and area of the material and the binder content. Removal of the binder will release the fibres unless they are physically constrained. During the first heating cycles increased ventilation or the use of respiratory protection may be required.

Hazardous Polymerisation: Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

Alumina fibre (Saffil ® Fibre):

In common with other man made mineral fibres the alumina fibres in this product are mechanical irritants which may result in temporary irritation of the throat, eyes or skin.

The products contain alumina fibres which are less than 3.0 micron diameter and greater than 5.0µm length which are classified as respirable by the World Health Organisation definition.



The alumina fibres contained in the product have a median diameter of 3.0 micron and contain low levels of fibres of less than 1.0 micron diameter to reduce the potential for inducing fibrosis and mesothelioma and fibres greater than 6.0 micron diameter to reduce the mechanical irritancy.

Toxicological testing of Saffil® fibre found no fibrogenic, carcinogenic or toxicological effects as a result of inhalation, injection or ingestion studies on animals. Alumina powder does not produce fibrosis.

C- Glass wool fibres :

In common with other man made mineral fibres the C-glass wool fibres in these products are mechanical irritants, which may result in temporary irritation of the throat, eyes or skin.

The products contain glass wool fibres which are less than 3.0 um diameter and greater than 5.0um length which are classified as respirable by the World Health Organisation definition.

C-glass wool fibres are suspected of causing cancer following inhalation and are classified as Carcinogen Category 2 by EC 1272 / 2008.

Data from animal exposure studies and epidemiological studies of fibre glass manufacturing workers were reviewed by the International Agency for Research on Cancer (IARC) in 1987 and were found to provide inadequate evidence of carcinogenicity in humans. However based on data from the animal exposure studies IARC classified glass wool as "possibly carcinogenic to humans - Group 2B"

Polymeric Binder:

The polymeric binder present in this product is considered to be non-hazardous

SECTION 12 - ECOLOGICAL INFORMATION

This product will remain stable over time with the inorganic components remaining inert.

SECTION 13 - DISPOSAL CONSIDERATIONS

In the UK waste containing > 1.0 % of C- glass fibre wool is classified as Hazardous waste - Hazard H7 carcinogenic and must be disposed of via a suitable licensed industrial hazardous waste site. Local regulations should be considered.

Waste should be bagged or suitably contained for disposal to prevent any dust of fibres being wind blown during disposal.

SECTION 14 - TRANSPORT INFORMATION

Not regulated for Transport.

Ensure that dust and fibres are not wind blown during transportation.



SECTION 15 - REGULATORY INFORMATION

Product Hazard classification according to Directive 67/548/EEC :

Not classified

Product Hazard classification according to Regulation CE 1272/2008

Article - not classified

SECTION 16 - OTHER INFORMATION

Further information regarding working with man made mineral fibres and measurement techniques may be obtained by referring to Guidance Note EH46 1990 and MDHS59 1988 published by the UK, Health & Safety Executive.

This information only concerns the above named produces) and may not be valid if used with other product(s) or for uses other than those described in Section 1. This information is to our best knowledge correct and complete but no guarantee can be given. It remains the responsibility of the user to make sure that the information is appropriate and complete for their particular use of the product.