



SAFFIL SAFSEAL CHEMICAL SAFETY DATA SHEET

SEPTEMBER 1999

1. IDENTIFICATION OF THE SUBSTANCE /PREPARATION AND COMPANY/ UNDERTAKING

PRODUCT NAME: 'SAFFIL' SAFSEAL

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2. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT DESCRIPTION

'Saffil' alumina fibre bonded with an organic polymer.

Polymer content : 5 - 15 % w/w.
Alternative names : Alumina fibre
Chemical composition : Aluminium (III) oxide 96-97%
: Silica 3-4%
EEC No. : 215-691-6

HAZARDOUS INGREDIENT(S)	CAS No.	Symbol	R Phrases
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Contains no Hazardous Ingredients in accordance with EC Directive 93/112/EEC

3. HAZARDS IDENTIFICATION

Low toxicity.

May cause transient irritation of the skin, nose and throat.

This product contains organic polymer which will decompose in the presence of excessive heat or flame to yield toxic and irritant vapours. See also section 10.



4. FIRST-AID MEASURES

- Inhalation : Remove patient from exposure.
- Skin Contact : Remove contaminated clothing. Wash skin with water. If symptoms (irritation or blistering) persist obtain medical attention. Contaminated clothing should be laundered before reissue to remove this substance.
- Eye Contact : Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain medical attention.
- Ingestion : Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain medical attention if ill effects occur.

Further Medical Treatment

Unlikely to be required but if necessary treat symptomatically.

5. FIRE-FIGHTING MEASURES

This product contains organic polymer. Combustion or thermal decomposition will evolve toxic and irritant vapours. See also section 10.

Extinguishing Media: water spray, dry powder or foam.

Fire Fighting Protective Equipment: A self-contained breathing apparatus and suitable protective clothing must be worn in fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Ensure suitable personal protection (including a suitable dust mask) during removal of spillages. Protect against dust. Collect using a high efficiency vacuum cleaner.

If vacuum cleaner is unavailable: Moisten spillages with water. Clear up spillages. Transfer to a lidded container for disposal.

7. HANDLING AND STORAGE

7.1 HANDLING

Atmospheric concentrations should be minimised and kept as low as reasonably practicable below the occupational exposure limit.

After handling it is recommended that exposed areas of skin are rinsed with water.

Avoid contact with naked flames and hot surfaces as the polymer may decompose, releasing toxic and irritant vapours.

Provide adequate ventilation if fumes or vapours are likely to be evolved.

7.2 STORAGE

Packaging should be kept closed and intact to reduce the possibility of releasing dust.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear suitable protective clothing, gloves and eye/face protection. Loose fitting longed sleeved clothing is recommended. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

A suitable dust mask should be worn if exposure to levels above the occupational exposure limit is likely. The selection of a suitable mask will depend upon the likely atmospheric concentration and the performance data of the mask. Check with protective equipment manufacturer's data. Contaminated clothing should be laundered before reissue to remove this substance.

Occupational Exposure Limits

HAZARDOUS INGREDIENT(S)	LTEL 8hr TWA pm	LTEL 8hr TWA mg/m ³	STEL ppm	STEL mg/m ³	Notes
Man-made Mineral Fibre	-	5	-	-	MEL

In addition to the MEL specified above, Man Made Mineral Fibre is also subject to a MEL of 2 fibres/ml.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Alumina fibre
Colour	: white
Odour	: odourless
Melting Point	: >2000(deg.C)
Density	: 3.3(g/ml)
Solubility (Water)	: insoluble
Solubility (Other)	: insoluble

Additional Properties

Staple fibre with organic binder in densified mat form.

Typical median fibre diameter around 3 microns, with very low levels of fibres having a diameter less than 1 micron and greater than 6 microns.

10. STABILITY AND REACTIVITY

Hazardous Reactions: None known.

Hazardous Decomposition Product(s): Thermal decomposition of the polymer will yield toxic and irritant vapours, including carbon dioxide and carbon monoxide. Chemicals produced during thermal decomposition are highly dependent upon temperature and conditions.



11. TOXICOLOGICAL INFORMATION

Inhalation	: Dust may be irritant to the nose and throat.
Skin Contact	: May cause skin irritation in sensitive individuals.
Eye Contact	: May cause physical irritation.
Ingestion	: Low oral toxicity. Unlikely to cause harmful effects under normal conditions of handling and use.
Long Term Exposure	: Lifetime rat inhalation studies at the maximum levels achievable have shown no evidence of lung cancer, lung fibrosis or any other adverse effect, apart from a minimal pulmonary response typical of that of a 'low toxicity dust'. A lifetime feeding study in rats has produced no evidence of any adverse effects at levels up to 2.5% in the diet. Intraperitoneal, intratracheal and intrapleural studies in rats, together with two in vitro tests, have all shown negative results with asbestos and crystalline silica as controls (where relevant) producing positive responses. The results of this extensive testing programme indicate that this material lacks one or more of the fundamental characteristics necessary for mesothelioma induction, as well as not possessing fibrogenic potential.

12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution

Medium tonnage material used in open systems. Solid with low volatility. The product is essentially insoluble in water. The product has no potential for bioaccumulation. The product has no mobility in soil.

Persistence and Degradation

Fibre: The substance shows no evidence for biodegradability in water. The substance shows no evidence for biodegradability in soil.

Toxicity

Unlikely to be hazardous to aquatic life.

Effect on Effluent Treatment

Unlikely to have any significant effects on effluent treatment.

13. DISPOSAL CONSIDERATIONS

Bury on an authorised landfill site.

Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

Not Classified as Hazardous for Transport.



15. REGULATORY INFORMATION

Not Classified as Dangerous for Supply/Use.

Product packaging labelling:

Handling advice - Working with this product may cause temporary irritation of the skin, nose and throat.

When Handling - Loose fitting long sleeved clothing, gloves and eye protection are recommended. If dust is generated wear a suitable dust mask.

After Handling - Rinse exposed areas of skin with water. Wash work clothes separately. Avoid contact with naked flames and hot surfaces as the polymer may decompose releasing toxic and irritant vapours.

16. OTHER INFORMATION

Use : in catalytic converters, industrial insulation, hot gas filtration and refractory material.

This data sheet was prepared in accordance with Directive 93/112/EC.

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MEL: Maximum Exposure Limit (UK HSE EH40).

