

# SAFETY DATA SHEET



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

<b>Product Name</b>	<b>ECOFLEX E200 &amp; E200LB</b>
<b>Manufacturer:</b>	Saffil Automotive Limited Unit 34, Greenfield Business Park Greenfield Holywell Flintshire CH8 7HJ UK +44 (0) 1352 712331
<b>Emergency Phone No.</b>	IN AN EMERGENCY DIAL 999 For specialist advice in an emergency telephone +44 (0) 1352 712331
<b>Use</b>	Subject to member state regulations, applicable uses are: automotive components

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<b>Product Description</b>	'Saffil' alumina fibre containing binder material. Alternative names : alumina fibre
<b>Chemical Composition</b>	Aluminium (III) oxide 85 - 93 % Silica 2 - 4 % Binder 4 - 11 %
<b>EC No.</b>	215-691-6

## 3. HAZARDS IDENTIFICATION

Not classified as dangerous according to EC Directive 67/548/EEC.

Low toxicity

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

This product contains binder material which will decompose in the presence of excessive heat and flame and may yield toxic and irritant vapours. See also section 10.

## 4. FIRST-AID MEASURES

<b>Inhalation</b>	Remove patient from exposure.
<b>Skin Contact</b>	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.
<b>Eye Contact</b>	Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain medical attention.
<b>Ingestion</b>	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.
<b>Further Medical Treatment</b>	Unlikely to be required but if necessary treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

<b>General</b>	This product contains organic binder material. Combustion or thermal decomposition will evolve toxic and irritant vapours. See also section 10.
<b>Extinguishing Media</b>	Water spray, dry powder or foam.

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## Fire Fighting Protective Equipment

A self contained breathing apparatus and suitable protective clothing must be worn in fire conditions.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Protection

Ensure suitable personal protection (including a suitable dust mask) during removal of spillages.

### General

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

### 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.

### Storage

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

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### General

When exposed to high temperatures the binder will burn out to leave a dusty alumina mat.  
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	CAS No.	LTEL 8 hr TWA ppm	LTEL 8 hr TWA mg/m <sup>3</sup>	STEL ppm	STEL mg/m <sup>3</sup>	Note:
Man-Made Mineral Fibre (MMMF)	-	-	5	-	-	WEL. In addition MMMF is also subject to a WEL of 2 fibres/cm <sup>3</sup> .

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Form

Alumina fibre and 4 - 11 % C,H,O containing binder.

### Colour

White

### Odour

Odourless

### Solubility (Water)

Insoluble

### Solubility (Other)

Insoluble

### Melting Point (° C)

>2000 - Alumina fibre

### Bulk Density (g/cm<sup>3</sup>)

0.05 - 3.0

### Additional Properties

Physical form:

Staple fibre in bulk or mat form. Typically, median fibre diameter around 3 microns, with less than 1 % by number less than 1 micron diameter and less than 2 % by number greater than 6 microns diameter.

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## 10. STABILITY AND REACTIVITY

<b>Hazardous Reactions</b>	None known
<b>Hazardous Decomposition Product(s)</b>	Thermal decomposition of the binder material will yield toxic and irritant vapours, including carbon dioxide and possibly carbon monoxide. Chemicals produced during thermal decomposition are highly dependent upon temperature and conditions.
<b>General</b>	When exposed to high temperatures the binder will burn out to leave a dusty alumina mat.

## 11. TOXICOLOGICAL INFORMATION

<b>Inhalation</b>	Dust may be irritant to the nose and throat.
<b>Skin Contact</b>	May cause skin irritation in sensitive individuals.
<b>Eye Contact</b>	May cause physical irritation.
<b>Ingestion</b>	Low oral toxicity. Unlikely to cause harmful effects under normal conditions of handling and use.
<b>Long Term Exposure</b>	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

<b>Environmental Fate and Distribution</b>	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
<b>Persistence and Degradation</b>	The product shows no evidence for biodegradability in water. The product shows no evidence for biodegradability in soil.
<b>Toxicity</b>	Unlikely to be hazardous to aquatic life.
<b>Effect on Effluent Treatment</b>	Unlikely to have any significant effects on effluent treatment.

## 13. DISPOSAL CONSIDERATIONS

<b>Recommended</b>	Bury on an authorised landfill site.
<b>Regulatory Information</b>	Disposal should be in accordance with local, state or national legislation.

## 14. TRANSPORT INFORMATION

Not classified as dangerous for transport.

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## 15. REGULATORY INFORMATION

Not classified as dangerous for supply/use.

### Product Packaging Labelling

Handling Advice:

May cause itching (temporary mechanical irritation).

Wear protective gloves, loose-fitting clothing and eye protection.  
If dust is generated wear a suitable dust mask.

If itching occurs wash with soap and water.  
Wash work clothing regularly and separately.

## 16. OTHER INFORMATION

This data sheet was prepared in accordance with Directive 2001/58/EC.

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WEL: Workplace Exposure Limit (UK HSE EH40)

**The following sections contain revisions or new statements: 3,8,15,16**