



SPREFIX S

SAFETY DATA SHEET

SpreFix® S – Stone Wool Fibers

According to 91/155/EEG D ate created 12/06/2008 Date revised 26/05/2009 ag

1. Identification of the preparation and company

- 1.1 **Product Name** SpreFix® S – Stone Wool Fibers
- 1.2 **Product Type** Loose engineered mineral fibers for spray-on insulation. Man-Made Vitreous (silicate) Fibre (MMVF34) based on High-Alumina, Low-Silica Fibres, RIF41001, HT-Fibre.
- 1.3 **Company Name** MCOATING
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2. Hazard identification

Mineral fibers are irritating to skin. High levels of mineral fiber dust may cause irritation to eyes, nose and throat. Mineral fiber does not cause any chronic effect when used in normal conditions.

3. Composition and information on ingredients

SpreFix® S – Stone Wool Fibers consists of engineered inert vitreous silicate loose mineral fibres. Also contains de-dusting oil.

Ingredient.	CAS No C	oncentration	Symbol(s)	Risk phrase(s)
Synthetic vitreous (silicate) fibers	65997-17-3	99-100% X	iR	38
De-dusting oil	n.a.	<1%		

4. First aid measures

- 4.1 **Inhalation** When affected leave the dusty area and breathe fresh air
- 4.2 **Skin contact** When irritated; Avoid itching. Rinse with cold, fresh water then wash with soap and water.
- 4.3 **Eye contact** When irritated: Rinse with fresh cold water for at least 10 minutes. Avoid rubbing your eyes. If inconvenience remains, seek medical advice.

n.a. = not applicable

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5. Fire-fighting measures

- 5.1 **Flammability** The product is non-combustible and does not pose any fire hazard. However, packaging material may burn.
- 5.2 **Suitable extinguishing media** Use normal extinguishing media.

6. Accidental release measures

Large pieces may be placed in plastic bags or waste bins. Granules or dust should be collected using vacuum cleaning or dampening down with water spray prior to brushing up. Minimise exposure to dust. See Section 8 for recommended personal protection measures. Handle waste according to local, national or EU-regulations. See section 13.

7. Handling and storage

- 7.1 **Handling** Handle the product in a way that minimizes dusting. SpreFix™ S Stone Wool Fibers is installed by spraying with special equipment. When spraying, a 2-component water-based binder system is added which reduces dusting. Air-borne dust is spread when opening bales or sacks and when filling the machine. Keep working area clean.
- 7.2 **Storage** Keep the material in original packaging until it is to be used. Store in a dry place. Avoid damage to the packaging.

8. Exposure controls and personal protection

Local regulations may apply.

- 8.1 **Exposure** Provide good ventilation. Avoid contact with skin or eyes.
- 8.2 **Personal Protection** **Respiratory ways;** Use dust filter class FFP2
- Hands:** Wear protective gloves for comfort.
- Eyes:** With heavy dust development, wear protective glasses
- Skin:** Wear loose fitting, long-sleeved, long-legged protective clothes. Cover sensitive skin such as neck and wrists.
- After work is finished, shower and change clothes completely. Protective clothes must be washed separately and kept separated from other clothes.

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9. Physical and chemical properties

9.1	Physical state	Solid fibers supplied in bales
9.2	Colour	Grey-green
9.3	Odour	n.a.
9.4	pH	7-8 (DIN 54275)
9.5	Boiling point	n.a.
9.4	Melting point	Above 1000°C
9.5	Flash point	Non-flammable DIN 4102
9.6	Flammability	Non-flammable DIN 4102
9.7	Autoflammability	Non-flammable DIN 4102
9.8	Explosive properties	Non-flammable DIN 4102
9.9	Oxidising properties	
9.10	Vapour pressure	
9.11	Fiber density	Approx. 2,6 g/cm ³
9.12	Solubility	n.a.
9.7	Partition coefficient	n.a
9.8	Other data	n.a

10. Stability and reactivity

10.1	StabilityS	table.
10.2	Reactivity	Not reactive
10.3	Thermal decomposition products	n.a

When mineral wool is heated above 220°C, this starts a decomposition reaction of the dust binding mineral oil or the sizing, the result of which can be detected by their odour. Emissions usually occur only during the first heating. It is advisable to ensure good ventilation when such appliances are first put into service

The decomposition products are those that would be expected from any organic (carbon containing) material, and are mainly derived from pyrolysis or burning the mineral oil or the sizing. These decomposition products are mainly carbon dioxide, carbon monoxide, carbon particles, water, and trace gasses (e.g. nitrogen dioxide, sulphur dioxide).

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11. Toxicological information

11.1 Coarse fibers

Coarse fibres can cause itching of the skin, foreign body reaction in the upper respiratory system (mucous membranes), and in the eyes. The itching and possible inflammation are a mechanical reaction to the coarse fibres (of more than about 5 µm in diameter) and are not damaging in the way chemical irritants may be. They generally abate within a short time after the end of exposure. When products are handled continually, the skin itching generally diminishes.

11.2 Respirable fibers

Animal studies

If fibres are very durable (biopersistent) and present in high concentrations they may lead to disease. This product has been tested in long-term carcinogenicity studies [inhalation and intraperitoneal injection (i.p.)] with no significant increase in lung tumours or abdominal tumours. Short-term biopersistent (inhalation and intratracheal injection) studies have shown that the fibres disappear very rapidly from the lung.

In October 2001, the International Agency for Research on Cancer (IARC) evaluated that there is inadequate evidence in experimental animals for this product (high-alumina low-silica (HT) wool).

Experiences in humans (Epidemiological Studies)

Large morbidity and mortality studies of both European and North American mineral wool [rock (stone) and slag wool] manufacturing workers have been conducted with the traditional mineral wools. The studies have found no significant evidence of non-malignant lung disease (e.g. fibrosis).

In October 2001, IARC classified rock (stone) wool as Group 3, "not classifiable as to its carcinogenicity to humans". The 2001 decision was based on the latest epidemiological studies and animal inhalation studies that show no relation between inhalation exposure and the development of tumours.

The Group 3 overall evaluation was based on inadequate evidence in humans and limited evidence in experimental animals due to a significant increase in abdominal tumours after intraperitoneal injection of high doses of fibres.

This product has not been subject to epidemiological studies but consists of the less bio persistent fibres (lowsilica, high-alumina (HT) wool), which will disappear even faster from the lung than the rock (stone) wool fibres.

12. Ecological information

Stable product with no known adverse environmental effects.

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13. Disposal considerations

Material that is not recycled can be deposited as non-hazardous waste.

14. Transport information

- | | |
|---|--|
| 14.1 Road and railroad transport | |
| -ARD | Not dangerous goods |
| -RID | Not dangerous goods |
| 14.2 Domestic sea transport | |
| ADNR | Not dangerous goods |
| 14.3 Sea transport | |
| -IMDG/UN | Not dangerous goods |
| 14.4 Air transport | |
| -ICAO/IATA-DGR | Not dangerous goods |
| 14.5 Mail and courier | Allowed |
| 14.6 Identification | This product is not classified as dangerous goods for transportation |

15. Regulatory information

In accordance with EC Directive 88/379/EEC and the Chemicals (Hazard Information and Packaging for Supply) Regulations SI /3247/1994 this product is labelled as follows:

- | | |
|-----------------------|--|
| 15.1 Symbol | Xi, irritant ⁽¹⁾ |
| 15.2 R -phrase | R 38 Irritating to skin |
| 15.3 S-phrases | S 36/37 Wear suitable protective clothing and gloves |

The product contains Mineral Fibres [Man-made vitreous (silicate) fibres]
This product is exonerated from classification as a carcinogen according to Note Q in EU Commission Directive 97/69/EC.
This product is exonerated from classification as a carcinogen according to the German Hazardous Substances Ordinance Annex V Nr. 71 as of 1 October 2000

⁽¹⁾ SpreFix® Stone Wool Fibers passes the R38 tests proving that SpreFix® Stone Wool Fibers is not chemical irritant. EU is currently considering the anomaly that SpreFix® Stone Wool Fibers is classified R38 despite not being chemical irritant.

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16. Other information

This MSDS is according to 91/155/EEG.

All information and data in this MSDS is only applicable to the specifically identified material. We believe that this information is correct as described in this MSDS.

Due to the fact that the purpose and condition when using the product is beyond the control of our company the customer is responsible to decide upon safety measures upon using the product.

Our company cannot be held responsible for damage or obligations caused by wrongful use of this product.

This MSDS is not a sales specification or manual stating any specific use of the product.

SpreFix system

The product SpreFix[®] S – stone wool fibers shall be used together with the binders SpreFix[®] LPA and SpreFix[®] LPB

The components shall be applied using a special spray-on machine operated by qualified personnel.

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