



Trelleborg Fillite

MATERIAL SAFETY DATA SHEET

General Description: **Microspheres based on Alumina Silicate**

Typical Chemical Composition

SiO ₂	55-65%
Al ₂ O ₃	27-37%
Fe ₂ O ₃	4% maximum
K ₂ O	5%
Na ₂ O	1%
Ca O	0.5%
Mg O	1.5%
TiO ₂	1%

Specific Gravity	Approximately 0.6-0.9 g/cc
Particle Size	Minimum 5 microns Maximum 540 microns Mean 130 microns
Melting Point	1200 – 1400°C
Loss on Ignition	Maximum 2%
Solubility	Negligible in water or organic solvents
Color	Pale white to mid grey
Appearance	Free flowing powder
Odor	Virtually none, occasional earthy odor
pH	6.0 – 8.0
Boiling Point	Not applicable
Percentage Volatiles	Not applicable
Flash Point	Not applicable
Incompatibility (materials to avoid)	None

CAS#: 68131-74-8 (FLYASH)

Hazardous Decomposition Products	None
Hardness	5 (mohs scale)
Flammability	Non-combustible
Reactivity	Inert silicate glass of very low reactivity
Explosion Risk	None

Fillite

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Health Information

1.) Eyes

Effect on Contact	May cause minor eye irritation.
Protection	Eye protection should be worn.
First Aid	Wash eyes copiously with water and if irritation persists seek medical help.

2.) Skin

Effect of Contact	May cause transient skin irritation.
Protection	Overalls, gloves, boots, and helmets are advisable to give protection against dust when worn in combination with suitable respiratory protection.
First Aid	Remove from skin by washing thoroughly with soap and water. If irritation persists seek medical advice.

3.) Inhalation

Effect on Respiratory System	<u>Acute</u> – May cause cough and mild respiratory tract irritation at high exposure levels.
Protection	NIOSH / OSHA approved respirator must be worn. Note: Air monitoring must be carried out prior to entry by personnel into areas likely to contain high concentrations of airborne dust. Respiratory protection equipment shall be worn capable of providing protection commensurate with the maximum recorded levels, i.e., to ensure that the normal protection factor of the respirator is adequate.
First Aid	Remove from exposure.

4.) Ingestion

	(Unlikely to be a problem)
Effect of G.I.* System (*Gastro-Intestinal)	No known adverse health effects.
Protection	Wash hands before eating or smoking.
First Aid	If ingested, drink plenty of water and seek medical advice.

5.) Storage

Dry	Keep in enclosed containers / silos or in sealed bags.
Wet	Ensure surface does not dry out.

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Toxicology Information

*Typically 65 pg/g NATO/CCMS TCDD Equivalent

*(pg – A picogram is one million of a gram (10^{-12})).

Based on the NATO Committee on Challenges to Modern Society (CCMS) which equates Toxic Equivalent factors (TEQS) to tetrachlorodibenzo-p-dioxin (TCDD).

This level is only slightly greater than the normal range of 10-40 pg/g found in soils with no known dioxin contamination.

Exposure Standards

Exposure should be controlled to the minimum that is reasonably practicable and should not exceed 10 mg/m³ 8 hour TWA inhalable dust.

Due to the virtual absence of respirable dust (i.e., particles below 5 microns), effects of long term exposure are minimal.

Trace Minerals

The Health and Safety Executive report ISBN 0 11 886391 6 concludes that an exposure standard of 10 mg/m³ 8 hour TWA will control the level of trace metals (i.e., Antimony, Selenium, Thorium, Copper, Cobalt, and Vanadium) which may be present at trace levels, to below their individual occupational exposure standards.

Crystalline Silica

Avoid grinding or milling which may generate levels of crystalline silica in excess of 0.1%. Respirable crystalline silica may cause serious lung problems and there is limited evidence silica is a carcinogen.

This material safety data sheet and the information contained herein is offered in good faith as accurate. We believe the information to be correct and is based on the latest medical and research information available at the present time, but no guarantee of completeness can be made. Health and Safety information precautions in the data sheet may not be adequate for all individuals and/or situations.

It is the users' obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.

No Warranty is made, either express or implied.

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