
SAFETY DATA SHEET

A. Identification of the Substance / Preparation and of the Company Undertaking

Product Name: SpEC Armourtop EM9
Company: Speciality Engineering Chemicals
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B. Composition / Information on Ingredients

Chemical Entity: Proportion by Weight (Typical)

Silica (Combined as Silicate) SiO₂: 35%
Quartz (Free Silica): <1.0%
Iron as Oxides FeO/Fe₃O₄: 50%
Aluminum Oxide Al₂O₃: 5%
Calcium Oxide CaO: 5%
Arsenic: <0.05%
Lead: <0.05%
Cadmium: <0.005%
Nickel: <0.10%
Cobalt: <0.05%
Chromium: <0.30%
Copper CuO: 0.5%
Zinc ZnO: 0.5%

C. Hazards Identification

Acute

Ingestion: No health hazard
Eyes: Mechanical irritant
Skin: Direct contact with material under pressure will abrade or damage skin
Inhalation: May irritate if exposure is excessive

Chronic

Nuisance Dust: Prolonged exposure to high level may have debilitating effect on the lungs.

D. First Aid Measures

Eyes:	Remove foreign body; flush with water
Skin:	Clean and dress open wounds
Inhalation:	Move to fresh air
Ingestion:	Not applicable
First Aid Facilities:	General first aid equipment for treatment of cuts and abrasion.
Advice to Doctor:	Not applicable

E. Fire Fighting Measures

No data available

F. Accidental Release Measures

As with any dust there is the potential for a dust explosion and thus ventilation should be such that goods

G. Handling and Storage

No special storage

H. Exposure Controls / Personal Protection

Quartz (respirable) 0.1 mg/m³ (8 hour TWA)

Inspirable Dust 10 mg/m³ (8 hour TWA)

Engineering Controls:	Ensure ventilation is adequate to maintain dust exposure below the exposure standard for personnel adjacent to the grit blasting area. If ventilation is not adequate use wet blasting technique or enclose blasting area.
Personal Protection:	Operator must wear an airline respirator of a type complying with OSHA, a hood or helmet, a jacket or protection suit and hand and foot protection.
Flammability:	Not flammable under conditions of use.

I. Physical and Chemical Properties

Appearance:	Black Granular Solid
Flash Point (°C):	Not relevant
Boiling Point / Melting Point (°C):	Not relevant
Flammability Limits (%):	Not relevant
Vapour Pressure (Pascals or mm of Hg at 25°C):	Not relevant
Solubility in Water (g/L):	Non-soluble

Other Properties

Hardness:	8 Mohs
Chlorides:	<25ppm

Conductivity:	<25 mS/m
pH:	7
Bulk Density at 25°C:	1.75 Tonnes/m ³
Specific Gravity at 25°C:	3.5 kg/m ³

J. Stability and Reactivity

No data available

K. Toxicological Information

No data available

L. Ecological Information

No data available

M. Disposal Considerations

No special spill and disposal procedures.

N. Transport Information

No transport requirements necessary.

O. Regulatory Information

No data available

P. Other Information

Care should be taken when SpEC Armourtop EM9 is recycled as this will enhance the generation of respirable particulate. Recycling more than twice is not recommended.

