

WASHINGTON MILLS**ELECTRO MINERALS
COMPANY****MATERIAL SAFETY DATA SHEET****1.0 Chemical Product and Company Identification**

Product Name: Silcaride Type P D/C Fines,
Silcaride No. 5 RF Grit Fractions,
Silcaride No. 5 RF Fines

Chemical Name: SILICON CARBIDE

Company Name: Washington Mills Electro Minerals Corp.
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2.0 Composition/Information on Ingredients

Component	CAS No.	OSHA Exposure Limits (PEL)	ACGIH Rec. Limits (TLV)	Percent By Weight
Silicon Carbide	409-21-2	15 mg/m ³	10 mg/m ³	90
Silicon Dioxide	7631-86-9	80mg/m ³ % SiO ₂	30mg/m ³ % quartz + 3	4 - 5
Free Carbon	7440-44-0	NA	NA	3
Free Silicon	7440-21-3	15 mg/m ³	10 mg/m ³	0.5 - 1
Iron	7439-89-6	NA	NA	0.5 - 1
Crystalline Silica ** (Impurities total less than 1%)	NA	* See Below	0.05mg/m ³	1 - 4

* OSHA PEL for crystalline silica is calculated as:
(Total dust) PEL = $\frac{30 \text{ mg/m}^3}{\% \text{quartz} + 2(\% \text{cristobalite}) + 2(\% \text{tridymite})} + 2$

** International Agency for Research on Cancer (IARC) - IARC human carcinogen.

3.0 Hazard Identification/ Potential Health Effects

Eye: May irritate eyes.
Skin: Not absorbed through the skin. May cause abrasions.
Ingestion: No known adverse effects, but ingestion not recommended.
Inhalation: May cause coughing or shortness of breath.

Chronic Effects:

Prolonged exposure to crystalline silica can cause lung scarring which may lead to a progressive massive fibrosis and chronic lung injury (silicosis). Silicon Carbide may alter the course of inhalation tuberculosis leading to extensive fibrosis and progressive disease.

Carcinogenicity: IARC labels crystalline silica as a 1A (Probable human) Carcinogen.

4.0 First Aid Measures

Eyes: Wash with large amounts of water. Get medical attention, if needed.
Skin: Wash with water. Obtain first aid or medical assistance if needed.
Ingestion: If swallowed, seek medical attention.
Inhalation: Remove to fresh air, apply artificial respiration as needed. Get medical attention if needed.

5.0 Fire Fighting Measure

Flammable Properties: Non-flammable
Flash Point: None **Fire/Explosion Potential:** None
Upper and Lower Flammable Limits: None
Autoignition Temperature: None
Special Fire Fighting Procedures: None

6.0 Accidental Release Measures

Personal Precautions: Wear protective equipment. See Section 8.
Cleanup Measures: Normal cleanup procedures. Avoid generating dust. Dispose according to standard landfill methods consistent with applicable Federal, State and Local laws.

7.0 Handling and Storage

Normal Storage: General storage, ambient air temperature and pressure.
Handling: Avoid generating dust. Handle with adequate ventilation for dust. See OSHA 29 CFR 1910-94 (Ventilation).

8.0 Exposure Controls, Personal Protection

Engineering Control: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposures below PELs or TLVs.

Respiratory Protection: Recommended if TLVs or PELs are exceeded. Use NIOSH/MSHA approved respirators.

Skin and Hand Protection: Gloves as desired by user.

Eye and Face Protection: Use safety glasses with side shields. If there is potential for exposure to particles which could cause mechanical injury to the eye, wear goggles.

9.0 Physical and Chemical Properties

Appearance: Granular Black or Green

Odor: Odorless

pH: N/A

Boiling Point: Sublimes

Melting Point: Sublimes

Flash Point: None

Explosive Properties:

None

Oxidizing Properties: None

Vapor Pressure: N/A

Vapor Density: N/A

Specific Gravity: 3.2

Water Solubility: Insoluble

Solubility in other solvent: Fuming KOH, Insoluble in most acids

15.0 Regulatory Information

TSCA - The chemical components of this product are registered under the Toxic Substance Control Act. (Title 40 CFR Part 710).

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The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof; however, Washington Mills Electro Minerals Corporation makes no expressed or implied warranty with respect to the accuracy of the information or the suitability of the recommendations and assumes no liability to any user thereof.

10.0 Stability and Reactivity

Chemical Stability: Stable

Polymerization: Will not occur

Incompatibility: None

Conditions to Avoid: N/A

11.0 Toxicological Information

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans (Vol. 42, 1987) concludes that there is sufficient evidence for the carcinogenicity of crystalline silica to humans, IARC Class A.

12.0 Ecological Information

Not Available

13.0 Disposal Considerations

Approved landfill in accordance with all local, state and federal regulations.

14.0 Transportation Information

US DOT - Not regulated as a hazardous material.