

MATERIAL SAFETY DATA SHEET

Product Identification

Product Names: Powermelt 90% SiC Grain Bagged,
Powermelt **XTRA** 90% SiC

Chemical Formula: 90% Silicon Carbide

Manufacturer Name: Dauber Co., Inc.
577 North 18th Road
Tonica, Illinois 61370

Emergency Telephone No: 800.682.8478

CHEMTREC ® 800.824.9300

HMIS Number 1

Hazardous Ingredients Information

% Comp. Hazardous Components	CAS #	OSHA PEL1	ACGIH TLV2
>86% Silicon Carbide	409-21-2	10 Mg/M3 5 Mg/M3 ^	10 Mg/M3
< 4% Graphite (Synthetic)	None	10 Mg/M3 5 Mg/M3 ^	2 Mg/M3 ^
< 1% Silicon (Si)	7440-21-3	10 Mg/M3 5 Mg/M3 ^	10 Mg/M3 ^
< 7% Free Silica (SiO ₂)	14808-60-7	0.1 Mg/M3 ^	0.1 Mg/M3 ^

1 Occupation Safety and Health Administration final rule permissible exposure limits.

2 American Conference of Governmental Industrial Hygienists threshold limit values.

^ Respirable Fraction: Determined using industrial hygiene methods.

Physical & Chemical Characteristics

Appearance and odor:	Exceedingly hard, dull gray crystal and no odor.
Boiling Point:	Decomposed at 4262 F / 2350 C, Sublimes at or above 4892 F / 2700 C
Melting Point:	See Boiling Point
Vapor Pressures:	NA
Vapor Density:	NA
PH:	9.0 to 10.5
Specific Gravity:	(H2O = 1) 3.17
Molecular weight:	40.10
Molecular formula:	Si-C
Evaporation Rate:	NA
Solubility in water:	Insoluble
Solvent solubility:	Soluble: Fused potassium Hydroxide, fused alkali, melted iron. Insoluble: acids, alcohol

Fire and Explosion Hazard Data

Flash Point:	NA
Flammable Limits:	NA
Extinguishing Media:	NA
Lower/Upper Explosion Limits:	NA
Special Fire Fighter Procedures:	NA
Unusual F & E Hazards:	None (Material <u>NOT</u> combustible)

Reactivity Data

Stability:	Stable
Incompatibility:	NA
Hazardous Decomposition or By-Products:	NA
Conditions to avoid:	None

Health Hazard Data

Route(s) of entry:	Inhalation
Health Hazards:	Acute upper respiratory irritation. Chronic may lead to extensive fibrosis & progressive lung disease.
Carcinogenicity: NPT? No	IARC Monographs? No OSHA Regulated? No
Exposure symptoms:	Respiratory distress, cough and shortness of breath.
Medical conditions:	Any respiratory condition

Emergency and first aid procedures: Remove from area of dust exposure. If dust gets in eyes, flush immediately with large quantities of clean cool water.

Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Sweep, shovel or vacuum materials. Limit exposure to dust.

Waste Disposal method: May be land filled in accordance with state, federal and local regulations.

Precautions to be taken in handling and storing: Limit generation of dust.

Other precautions: Particles may be sharp which may cause cuts and abrasions to skin and eyes.

Control Measures

Respiratory Protection:	NIOSH approved dust respirator recommended for limiting exposure. Similar respiratory protection required at concentrations above PEL.
Ventilation:	Local exhaust recommended.
Protective Gloves:	Recommended to prevent cuts and abrasions.
Eye Protection:	Recommended
Other Protective:	Clothing/Equipment: None
Work/Hygienic Practices:	Minimize generation of dust.

Sara Title III Reporting

To the best of our knowledge, this product does not contain any substance requiring on the SARA, Title III, and Section 313 list.

The information published in this Material Safety Data Sheet has been compiled from our experience, and data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the user's application and for adopting necessary safety precautions.