

## MATERIAL SAFETY DATA SHEET

### Product Identification

Product Identification: 31% to 68% Silicon Carbide/Manganese Briquettes and Slabs.  
 Product Name(s): 36Mn5, JICASE, 35Mn4W, 65Mn5  
 Chemical Family: Graphitic, Carbides  
 Manufacturer Name: Dauber Co., Inc.  
 577 North 18<sup>th</sup> 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
31% - 68% Silicon Carbide (SiC)	409-21-2	10 Mg/M3 5 Mg/M3 ^	10 Mg/M3
22% - 44% Total Carbon (TC)	None	None	None
> 4% Free Carbon (FC)	None	None	None
< 20% Silicon Dioxide (SiO <sub>2</sub> )			
Amorphous	7631-86-9	20 Mppcf (80 Mg/M3/%SiO <sub>2</sub> )	10 Mg/M3
Crystalline (as respirable dust)	14808-60-7	TWA 250 Mppcf/(%SiO + 5); TWA 10 MgM3/(%SiO <sub>2</sub> + 2)	0.1 Mg/M3
3% to 6% Manganese (Mn)	7439-96-5	5 Mg/M3	0.2(Mn)/M3
8% -14% Cement	65997-15-1	10 Mg/M3 (total) 5 Mg/M3 ^ (resp)	10 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:	Hard, solid, dull gray to black and slightly musty. Cylindrical shaped briquette of approximately 3-1/4" in diameter and 6" in height and/or rectangular shaped slabs of approximately 4"x6"x8" to 6"x8"x16".
Boiling Point:	Decomposed at 4262° F / 2350° C, Sublimes at or above 4892° F / 2700° C Cement will decomposes 1300° F / 702° C
Melting Point:	See Boiling Point
Vapor Pressures:	NA
Vapor Density:	NA
PH:	NA
Specific Gravity:	(H2O = 1) 3.17
Molecular weight:	40.10
Molecular formula:	Si-C
Density:	105# per Cubic Feet
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, Ingestions (not intended), Skin and/or Eye contact
Health Hazards:	
Inhalation:	Acute upper respiratory irritation. Chronic may lead to extensive fibrosis & progressive lung disease.
Ingestion:	Short term exposure: no information available. Long term exposure: no information on significant adverse effects. Carbon compounds (large dose) may produce gastrointestinal disturbance.
Skin contact:	Short term exposure: irritant dermatitis accompanied by purities. Long term exposure: no information available.
Eye contact:	Short term exposure: mechanical irritation with redness and possibly swelling of the conjunctiva. Long term exposure: no information available.
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. May be harmful if dropped on body appendages

### **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.

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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.