

# SILICON CARBIDE

H.M.S. Beagle  
180 English Landing Drive  
Suites 110-120  
Parkville, MO 64152  
816-587-9998  
www.hms-beagle.com

## 1. Product Identification

**Synonyms:** Polishing Grit  
**CAS No.:** 409-21-2  
**Molecular Weight:** 200.59  
**Chemical Formula:** SiC  
**Product Codes:** CHEM-108 and others

## 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Silicon Carbide	409-21-2	100%	No

## 3. Hazards Identification

### Emergency Overview

The most important hazards are: No unusual fire or spill hazard.

Inhalation: Pulmonary effects of inert dust. Low health risk by inhalation. Treat as a nuisance dust, as specified by the American Conference of Governmental Industrial Hygienists.

Eyes: Dust may irritate eyes. Treat as a nuisance dust.

Skin: Dust may cause skin abrasions. May irritate broken skin. Treat as a nuisance dust.

Ingestion: May irritate digestive tract.

### SAF-T-DATA<sup>(tm)</sup> Ratings

Health Rating: 1 - Slight

Flammability Rating: 0 - None

Reactivity Rating: 0 - None

Contact Rating: 1 - Slight

Lab Protective Equip: GOGGLES & SHIELD; APRON; PROPER GLOVES

Storage Color Code: Green (General Storage)

## 4. First Aid Measures

Summary of first aid is as follows: (ACGIH)

Inhalation: Move to fresh air. If breathing is labored or stopped, give artificial respiration. Get immediate medical attention.

Skin contact: Remove contaminated clothing and flush with water.

Eye contact: Flush eyes with plenty of water for at least 15 minutes. Remove contaminated clothing and flush with water. Consult a physician if irritation persists.

Ingestion: If swallowed, dilute with large amounts of water. Do not induce vomiting. Consult a physician immediately.

## 5. Fire Fighting Measures

Suitable extinguishing media: Use extinguishing agent applicable to surrounding fire.

Flash Point: None

Flammable Limits: None

Auto-Ignition Temperature: N/A

Hazardous Combustion products: None

Required special protective equipment for fire fighters: Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

## 6. Accidental Release Measures

Methods for cleaning: Small/Large Spill - Clean up using dry procedures, avoid dusting.

Where appropriate, refer to information under headings "Exposure Controls and "Disposal Considerations."

## 7. Handling and Storage

Handling: Avoid inhalation, ingestion, eye and skin contact.

Storage: Keep material dry.

## 8. Exposure Controls/Personal Protection

Material	CAS number	OSHA PEL	ACGIH TLV	%(Optional)
----------	------------	----------	-----------	-------------

SiC	409-21-2	15gm/m <sup>3</sup>	10mg/m <sup>3</sup>	96-99%
-----	----------	---------------------	---------------------	--------

**Respiratory protection:** NIOSH approved dust respirator where exposure limit is or may be exceeded. See OSHA 29CFR1910.134

**Skin protection:** None

**Eye protection:** Safety glasses recommended. See OSHA 29CFR1910.133

## 9. Physical and Chemical Properties

**Appearance:** Crystalline grey to black powder

**Odor:** none

**pH:** not determined

**Boiling point/boiling point range:** N/A

**Melting point/melting point range:** N/A

**Flashpoint (°C) show closed or open cup:** None

**Flammability (gas/solid):** non-flammable

**Autoflammability:** N/A

**Explosive properties:** N/A

**Vapor pressure:** N/A

**Relative density:** Loose bulk 48-63 lb/ft<sup>3</sup> (0077-1.0gm/cm<sup>3</sup>)

**Solubility:** very slightly soluble in acids and alkalis

**Solubility (water and fat):** insoluble in organic solvents

**Specific Gravity:** 3.2

**Evaporation Rate (Butyl Acetate -1):** N/A

## 10. Stability and Reactivity

**Conditions to avoid:** None

**Incompatibility:** None

**Hazardous decomposition products:** None

**Hazardous Polymerization:** None

## 11. Toxicological Information

Concise description of toxicological properties follows, including any special health effects of constituents: No LD50 or LC50 found for oral, dermal, or inhalation routes of administration.

## 12. Ecological Information

**Environmental Fate:**

No information found.

**Environmental Toxicity:**

No information found.

## 13. Disposal Considerations

Collect in containers, bags, or covered dumpster boxes. If reuse or recycling is not possible, material may be disposed of at a sanitary landfill.

**RCRA Status:** not regulated

## 14. Transport Information

**Special carriage precautions in carriage (on-site or externally):** N/A

**Classification data:** SEE TRANSPORT SUMMARY SHEET FOR PRODUCT PACKAGES ATTACHED (attach relevant transportation summary Record(s).

**U.S.A. DOT:** Not regulated. Enter the proper freight classification on the shipping paperwork. "MSDS Number" and product name for shipping purposes.

**Canadian TDG Hazard Class of PIN:** not regulated.

## 15. Regulatory Information

**Supply label information:** (see appropriate part of labeling decision record) TSCA status components of this product are listed in the TSCA inventory Cercla

**Reportable Quantity:** None

**SARA Title III:**

**Section 302 Extremely Hazardous Substances:** None

**Section 311/312 Hazardous Categories:** None

**Section 313 Toxic Chemicals:** None

**International Regulations Canadian Domestic Substances List:** component of this product is listed on the Canadian DSL.

**European Community:** Component of this product is listed on ECOIN, the European Core Inventory (EC) market.

**Applicable EU provisions and associated UK legislation:**

**NOTE:** THIS DATA SHEET DOES NOT CONSTITUTE A USER'S ASSESSMENT OF WORKPLACE RISK AS REQUIRED BY HSW ACT, COSHH, MANAGEMENT OF HEALTH AND SAFETY AT WORK REGULATIONS, OR OTHER HEALTH AND SAFETY LEGISLATION.

## 16. Other Information

**Further information sources:** References - American Industrial Hygiene Association (AIHA) Hygienic Guide Series, June 1978 Edition. U.S. Dept. of Health and Human Services, NIOSH: Registry of Toxic Effects of Chemical Substances, 1985-86 Edition. Sax, N. Irving: Dangerous Properties of Industrial Materials, Van Nostrand Reinhold Co., Inc., 1984. American Conference of Governmental Industrial Hygienists, Inc. (ACGIH), Documentation of the Threshold Limit Values and biological Exposures Indices, Sixth Edition, 1992.

**Product Use:**

Laboratory Reagent and Consumer Hobby

**Revision Information:**

No Changes.

**Disclaimer:**

\*\*\*\*\*

**H.M.S. Beagle and/or Rainbow House Alchemists, LLC, provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. NEITHER H.M.S. BEAGLE NOR RAINBOW HOUSE ALCHEMISTS, LLC MAKE NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, H.M.S. BEAGLE AND RAINBOW HOUSE ALCHEMISTS, LLC, WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.**

\*\*\*\*\*

**Prepared by:** John Farrell Kuhns

Phone Number: 816-587-9998 (U.S.A.)