

SILICON CARBIDE

Section I

Kurt J. Lesker Company 1925 Worthington Avenue Clairton, PA 15025 Ph: 412/387-9200 Fax: 412/233-4275		Emergency Phone Numbers KJLC 800/245-1656 Chemtrec 800/424-9300 Poison Center 800/562-8236	
Chemical Name and Synonyms Silicon Carbide		Date of Last Revision 1/27/88	
Formula SiC	Chemical Family Non-Metal Carbide	Chemical Abstract No. 409-21-2	
TSCA Listed or TSCA Inventory		Calc. Molecular Wt. 40.10	

Section II Hazardous Ingredients

Hazardous Ingredients	CAS #	%	TLV	OSHA PEL
Silicon Carbide	409-21-2	100	10 mg/m ³	15 mg/m ³
			of total	dust

Section III Physical Data

Boiling Point (0°C): 57.57	Density (gmcc): 3.217
Vapor Pressure: NA	% Volatile by Volume: NA
Reaction with Water: None	Evaporation Rate (H ₂ O -1): NA
Solubility in Water: Insoluble	Melting Point (°C): 2700
Appearance and Odor: Black powder, no odor	Other Comments:

Section IV Fire & Explosion Hazard Data

Flash Point (method) NA	Autoignition Temp. NA	Flammability Non-flammable	LEI NA	UEI NA
Extinguishing Media: None needed, non-flammable				
Special Fire Fighting Procedures: None required, material does not burn.				
Unusual Fire and Explosion Hazards: Dust may present a fire or explosion hazard under favorable conditions. However, this is not expected to occur under normal handling conditions.				

Section V Spill or Leak Process

Steps to be Taken in Case Material is Released or Spilled: Sweep or scoop up and remove.
Waste Disposal Method (Consult federal, state or local authorities for proper disposal procedures.): This product is not regulated as hazardous under RCRA. May be disposed of with normal refuse. If product is mixed with hazardous waste, it too then becomes a hazardous waste.

Section VI Health Hazard Data

Toxicity Data None available		HMIS Hazard Rating Health: 1 Flammability: 0 Reactivity: 0 Personal Protection: C	
Route(s) of Entry	Inhalation: X	Skin	Ingestion: X
Effects of Overexposure (acute and chronic) Inhalation: Mild irritation of upper respiratory tract will occur from over-exposure. chronic exposure may lead to formation of pneumoconiosis, a fibrotic change in the lungs as lung inflammation, chest pain, difficult breathing and coughing. Dermal/Eye Contact: Skin and eye contact may cause irritation due to the abrasive action of the dust. Other (specify): Silicon carbide is considered a nuisance dust, a non-toxic material.			
Medical Conditions Generally Aggravated by Exposure: NA			
Carcinogenicity: NA	NTP:	IARC Monographs	OSHA Regulations
Emergency and First Aid Procedures Ingestion: Dilute with large amounts of water and induce vomiting. Inhalation: Remove to fresh air and avoid further inhalation. Skin Contact: Wash thoroughly with mild soap and water. Eye Contact: Flush with water for 15 minutes.			

Section VII Reactivity Data

Stable: X Unstable:	Conditions Contributing to Instability:
Incompatibility (materials to avoid): None known	
Hazardous Decomposition Products - Thermal and Other (list): NA	
Hazardous Polymerization May Occur: Will Not Occur: X	Conditions to Avoid

Section VIII Special Protective Information

Respiratory Protection (specify type). Use Only Niosh Approved Equip. Dust respirator, NIOSH approved.	
Ventilation (always maintain exposure below permissible limits) Local Exhaust: To keep levels below TLV Mechanical (general): Special: Other:	
Protective Gloves: NA	Eye Protection: Safety Glasses
Other Protective Equipment/Work Practices: Normal laboratory wear.	

Section IX**Special Precautions**

Precautions to be Taken in Handling and Storing: Keep container closed when not in use.

Transportation Requirements

DOT Class: Not classified

UN Number: Not classified

IMCO Class: Not classified

Other:

The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, the Kurt J. Lesker Company makes no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon: User should satisfy himself that he had all current data relevant to his particular use.

ND = NO DATA FOUND

NA = NOT APPLICABLE