#### **Safety Data Sheet**



### Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • Silicon Carbide (Beta)

Product Code •

**CAS Number** • 409-21-2 **EC Number** • 206-991-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • High performance wear parts, abrasive filler

1.3 Details of the supplier of the safety data sheet

Manufacturer • Superior Graphite

10 S. Riverside Plaza Chicago, IL 60606 United States

**Telephone (General)** • 312-559-2999

1.4 Emergency telephone number

**Manufacturer** • 312-559-2999

#### **Section 2: Hazards Identification**

#### **EU/EEC**

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010] According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

**CLP** • Specific Target Organ Toxicity Repeated Exposure 2 - H373

**DSD/DPD** • Harmful (Xn)

R48/20

2.2 Label Elements

**CLP** 

#### WARNING



**Hazard statements** • H373 - May cause damage to organs - Lungs through prolonged or repeated exposure via Inhalation

#### **Precautionary statements**

Prevention • P260 - Do not breathe dust.

Response • P314 - Get medical advice/attention if you feel unwell.

Storage/Disposal • P501 - Dispose of content and/or container in accordance with local, regional,

national, and/or international regulations.

DSD/DPD



Risk phrases R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.

#### 2.3 Other Hazards

**CLP** 

According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

DSD/DPD

This product is considered dangerous according to the European Directive 67/548/EEC.

#### **United States (US)**

According to OSHA 29 CFR 1910.1200 HCS

#### 2.1 Classification of the substance or mixture

**OSHA HCS 2012** 

Specific Target Organ Toxicity Repeated Exposure 2 - H373

#### 2.2 Label elements

**OSHA HCS 2012** 

#### WARNING



Hazard statements . May cause damage to organs - Lungs through prolonged or repeated exposure via Inhalation - H373

#### **Precautionary statements**

Prevention Do not breathe dust. - P260

Response • Get medical advice/attention if you feel unwell. - P314

Storage/Disposal Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

#### 2.3 Other hazards

**OSHA HCS 2012** 

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

#### Canada

According to WHMIS

#### 2.1 Classification of the substance or mixture

**WHMIS** 

Other Toxic Effects - D2B

#### 2.2 Label elements

**WHMIS** 



Other Toxic Effects - D2B

# 2.3 Other hazards WHMIS

 In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

### Section 3 - Composition/Information on Ingredients

#### 3.1 Substances

Composition					
Chemical Name Identifiers % LD50/LC50 Classifications According to Regulation/Directive					
Silicon carbide	CAS:409-21-2 EINECS:206-991-8	97% TO 100%	NDA	EU DSD/DPD: Self Classified - Xn, R48/20 EU CLP: Self Classified - STOT RE 2 (Lungs, inhalation) H373 OSHA HCS 2012: STOT RE 2 (Lungs, inhalation)	

#### 3.2 Mixtures

 Material does not meet the criteria of a mixture in accordance with Regulation (EC) No 1272/2008.

#### **Section 4 - First Aid Measures**

### 4.1 Description of first aid measures

Inhalation

 Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. If breathing is difficult get medical attention.

Skin

• IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If irritation develops and persists, get medical attention.

Eye

 In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. Get medical attention.

Ingestion

 Do NOT induce vomiting. Rinse mouth. Do not give anything by mouth to an unconscious person. Get medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

Refer to Section 11 - Toxicological Information.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to Physician** 

 All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

### Section 5 - Firefighting Measures

### 5.1 Extinguishing media

**Suitable Extinguishing Media** LARGE FIRE: Water spray, fog or regular foam.

SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing Media

No data available.

### 5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion

Hazards

None known.

Hazardous Combustion Products

No data available

#### 5.3 Advice for firefighters

Wear positive pressure self-contained breathing apparatus (SCBA).
 Structural firefighters' protective clothing will only provide limited protection.

#### Section 6 - Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

**Personal Precautions** 

Avoid contact with material that generates respirable dust unless proper PPE is used.
 Do not walk through spilled material.

**Emergency Procedures** 

Use normal clean up procedures. Ventilate closed spaces before entering.

#### 6.2 Environmental precautions

Avoid run off to waterways and sewers.

#### 6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

Carefully shovel or sweep up spilled material and place in suitable container.
 Avoid generating dust.

#### 6.4 Reference to other sections

 Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

### Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

Handling

 Use only with adequate ventilation. Use appropriate Personal Protective Equipment (PPE) Do not breathe dust. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage

Ventilate enclosed areas. Keep container closed.

### 7.3 Specific end use(s)

Refer to Section 1.2 - Relevant identified uses.

### Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

Exposure Limits/Guidelines							
	Result	ACGIH	NIOSH	OSHA			
Silicon carbide (SiC) (409-21-2)	TWAs	10 mg/m3 TWA (nonfibrous, inhalable fraction, particulate matter containing no asbestos and <1% crystalline silica); 3 mg/m3 TWA (nonfibrous, respirable fraction, particulate matter containing no asbestos and <1% crystalline silica); 0.1 fiber/cm3 TWA (as determined by the membrane filter method at 400-450X magnification (4-mm	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)			

I	objective), using phase-contrast	Ī
	illumination., respirable fibers,	
	including whiskers, length >5 μm,	
	aspect ratio >=3:1)	

#### 8.2 Exposure controls

## **Engineering Measures/Controls**

 Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. All dust control equipment should contain explosion relief vents or an explosion supression system or an oxygendeficient environment. Make sure that dust handling systems are designed to prevent escape of dust into the work area and that they do not leak.

#### **Personal Protective Equipment**

Respiratory

For limited exposure use an N95 dust mask. For prolonged exposure use an airpurifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA
respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a
NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are
exceeded or symptoms are experienced.

Eve/Face

 Wear protective eyewear (goggles, face shield, or safety glasses). Eye wash station should be available.

Hands

Wear protective gloves .

Skin/Body

Wear long sleeves and/or protective coveralls.

**Environmental Exposure Controls** 

 Follow best practice for site management and disposal of waste. Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

#### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

### **Section 9 - Physical and Chemical Properties**

### 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Black, gray, or green solid with no odor.
Color	Black, gray, or green.	Odor	No odor.
Odor Threshold	Data lacking		
General Properties		-	·
Boiling Point	Data lacking	Melting Point	2700 C(4892 F) (sublimes)
Decomposition Temperature	Data lacking	рН	Data lacking
Specific Gravity/Relative Density	3.2 Water=1	Water Solubility	Insoluble
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	Negligible	Vapor Density	1.3 Air=1
Evaporation Rate	Negligible		
Flammability			
Flash Point	Data lacking	UEL	Data lacking
	<u> </u>		

Preparation Date: 21/February/1991

Revision Date: 03/May/2018

LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

#### 9.2 Other Information

No additional physical and chemical parameters noted.

### **Section 10: Stability and Reactivity**

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal temperatures and pressures.

#### 10.3 Possibility of hazardous reactions

. Will not occur.

### 10.4 Conditions to avoid

No data available

#### 10.5 Incompatible materials

Strong oxidizing agents, acids, and alkalis

### 10.6 Hazardous decomposition products

 Hazardous decomposition may occur on burning, releasing carbon dioxide and carbon monoxide,

### **Section 11 - Toxicological Information**

### 11.1 Information on toxicological effects

	Silicon Carbide (Beta) 409-21-2							
Test Type	Dosage	Route	Species	Duration	Results	Test Class	Target Organs	Comments
Multi-dose Toxicity	= 60 mg/m <sup>3</sup>	Inhalation	Rat	6 Hour(s) for 13 Week(s) Intermittent	TCLo	NDA	NDA	NDA
GHS Properties				Classification				
Acute toxicity				EU/CLP    • Classification criteria  OSHA HCS 2012   • Classification		not met		
Aspiration Hazard  EU/CLP • Classification criteria not met  OSHA HCS 2012 • Classification criteria not met								
Carcinogenicity  EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met								
Germ Cell Mutagenicity  EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met								
Skin corrosion/Irritation			EU/CLP    • Classification criteria  OSHA HCS 2012   • Classification		not met			
Skin sensitization			EU/CLP   Classification criteria not met  OSHA HCS 2012   Classification criteria not met					

**Preparation Date: 21/February/1991**Revision Date: 03/May/2018

STOT-RE	EU/CLP • Specific Target Organ Toxicity Repeated Exposure 2 OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 2
STOT-SE	EU/CLP   Classification criteria not met  OSHA HCS 2012   Classification criteria not met
Toxicity for Reproduction	EU/CLP   Classification criteria not met  OSHA HCS 2012   Classification criteria not met
Respiratory sensitization	EU/CLP   Classification criteria not met  OSHA HCS 2012   Classification criteria not met
Serious eye damage/Irritation	EU/CLP ◆ Classification criteria not met OSHA HCS 2012 ◆ Classification criteria not met

#### **Target Organs**

Lungs

Route(s) of entry/exposure

**Medical Conditions** Aggravated by Exposure **Potential Health Effects**  Inhalation, Skin, Eye, Ingestion

Disorders of the lungs.

#### Inhalation

Acute (Immediate)

**Chronic (Delayed)** 

Exposure to dust may cause irritation.

Repeated and prolonged exposure to dust may cause lung effects including pneumoconiosis.

#### Skin

Acute (Immediate)

**Chronic (Delayed)** 

Exposure to dust may cause mechanical irritation.

No data available.

Acute (Immediate)

Exposure to dust may cause mechanical irritation. Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.

Chronic (Delayed)

Ingestion

Acute (Immediate)

Chronic (Delayed)

No data available.

Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.

No data available.

### Key to abbreviations

TC = Toxic Concentration

### **Section 12 - Ecological Information**

### 12.1 Toxicity

Data lacking.

### 12.2 Persistence and degradability

Data lacking.

### 12.3 Bioaccumulative potential

Data lacking.

### 12.4 Mobility in Soil

Data lacking.

#### 12.5 Results of PBT and vPvB assessment

• PBT and vPvB assessment has not been conducted for this material.

#### 12.6 Other adverse effects

No studies have been found.

#### **Section 13 - Disposal Considerations**

#### 13.1 Waste treatment methods

**Product waste** 

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### **Section 14 - Transport Information**

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not regulated	NDA	NDA	NDA
TDG	NDA	Not regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not regulated	NDA	NDA	NDA

14.6 Special precautions for user

None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

### **Section 15 - Regulatory Information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Chronic

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	
Silicon carbide	409-21-2	Yes	No	Yes	No	

#### Canada

Canada - WHMIS - Classifications of Substances		
Silicon carbide	409-21-2	Uncontrolled product according to WHMIS classification criteria
Canada - WHMIS - Ingredient Disclosure List  • Silicon carbide	409-21-2	Not Listed

**Preparation Date: 21/February/1991**Revision Date: 03/May/2018

Environment		
Canada - 2004 NPRI (National Pollutant Release Inventory)		
Silicon carbide	409-21-2	Not Listed
Canada - 2005 NPRI (National Pollutant Release Inventory)		
Silicon carbide	409-21-2	Not Listed
Canada - CEPA - Greenhouse Gases Subject to Mandatory Reporting		
Silicon carbide	409-21-2	Not Listed
Canada - CEPA - Priority Substances List		
Silicon carbide	409-21-2	Not Listed
Canada - DWQ (Drinking Water Quality) - IMACs		
Silicon carbide	409-21-2	Not Listed
Other		
Canada - Accelerated Reduction/Elimination of Toxics (ARET)  • Silicon carbide	400.04.0	Nat Parad
Silicon cardide	409-21-2	Not Listed
Canada New Brunswick		
Environment Canada - New Brunswick - Ozone Depleting Substances - Schedule A		
Silicon carbide	409-21-2	Not Listed
Canada - New Brunswick - Ozone Depleting Substances - Schedule B		
Silicon carbide	409-21-2	Not Listed
Europe		
Other		
EU - Hazardous Substances Restricted or Prohibited in Electrical Equipment (20		
Silicon carbide	409-21-2	Not Listed
Japan		
Environment  Japan - Pollutant Release Transfer Register (PRTR) - Class 1 Substances		
• Silicon carbide	409-21-2	Not Listed
Japan - Pollutant Release Transfer Register (PRTR) - Class 2 Substances		
• Silicon carbide	409-21-2	Not Listed
Inventory - Japan - Industrial Safety and Health Law Substances (ISHL)		
Silicon carbide	409-21-2	Not Listed
Other  Japan - Chemical Substance Control Law (CSCL) - Examined Existing Chemic	al Substances	
Silicon carbide	409-21-2	Not Listed
Japan - Chemical Substance Control Law (CSCL) - Monitoring Chemical Subs	tances	
• Silicon carbide	409-21-2	Not Listed
Japan - Poisonous and Deleterious Substances - Substances Not Considered	d Deleterious	
	409-21-2	Not Listed

U.S OSHA - Process Safety Management - Highly Hazardous Chemicals  • Silicon carbide  U.S OSHA - Specifically Regulated Chemicals  • Silicon carbide  Vironment  S CAR (Clean Air Act) - 1990 Hazardous Air Pollutants  • Silicon carbide  U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities  • Silicon carbide  U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities  • Silicon carbide  U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs  • Silicon carbide  U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs  • Silicon carbide  U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs  • Silicon carbide  U.S CERCLA/SARA - Section 313 - Emission Reporting  • Silicon carbide  U.S CERCLA/SARA - Section 313 - PBT Chemical Listing  • Silicon carbide  U.S California - Proposition 65 - Carcinogens List  • Silicon carbide  Vironment  U.S California - Proposition 65 - Developmental Toxicity  • Silicon carbide  U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)  • Silicon carbide  U.S California - Proposition 65 - No Significant Risk Levels (NSRL)  • Silicon carbide  U.S California - Proposition 65 - Reproductive Toxicity - Female	Silicon carbide	409-21-2	Not Listed
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		409-21-2	Not Listed

**Preparation Date: 21/February/1991**Revision Date: 03/May/2018

• Silicon carbide

Not Listed

409-21-2

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

#### **Section 16 - Other Information**

Last Revision Date Preparation Date 03/May/2018

21/February/1991

Disclaimer/Statement of Liability

The information contained herein is based on data available. However, no warranty is
expressed or implied regarding the accuracy of the data or the results obtained from
the use thereof. Because the information contained herein may be applied under
conditions beyond our control, we assume no responsibility for its use.

**Key to abbreviations** NDA = No data available