



## AR-500 SiC Aggregate

### SECTION 1. IDENTIFICATION

**Product Identifier** AR-500 SiC Aggregate  
**Other Means of Identification** Inorganic Silicon Compound  
**Product Family** Silicon compound  
**Recommended Use** Chemical-resistant aggregate. Added to resin mixture as a filler.  
**Restrictions on Use** None known.  
**Manufacturer/Supplier Identifier** The Stebbins Engineering and Manufacturing Company, 363 Eastern Boulevard, Watertown, NY, 13601, (315) 782-3000, [www.stebbinseng.com](http://www.stebbinseng.com)  
**Emergency Phone No.** Chemtrec - Within North America, 1-800-424-9300, 24 hours  
Stebbins 24 Hour Contact-, 1-315-788-6624  
**SDS No.** 084

### SECTION 2. HAZARD IDENTIFICATION

#### Classification

Acute toxicity (Inhalation) - Category 5; Skin irritation - Category 3; Eye irritation - Category 2B

#### Label Elements

Signal Word:

Warning

#### Hazard Statement(s):

H316 Causes mild skin irritation.

H320 Causes eye irritation.

H333 May be harmful if inhaled.

#### Precautionary Statement(s):

P264 Wash hands and skin thoroughly after handling.

P304 + P312 IF INHALED: Call a POISON CENTRE or doctor if you feel unwell.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Silicon carbide	409-21-2	98-100	SiC	Inorganic Silicon Compound
Silica, quartz (non-respirable)	14808-60-7	0.1 - 1%	SiO <sub>2</sub>	Silicon Dioxide

### SECTION 4. FIRST-AID MEASURES

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## First-aid Measures

### Inhalation

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

### Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes.

### Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

### Ingestion

Rinse mouth with water. Get medical advice or attention if you feel unwell or are concerned.

## Most Important Symptoms and Effects, Acute and Delayed

If inhaled: at high concentrations can cause lung injury. If in eyes: symptoms include sore, red eyes, and tearing.

## Immediate Medical Attention and Special Treatment

### Target Organs

Eyes, lungs.

### Medical Conditions Aggravated by Exposure

Respiratory conditions.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

### Specific Hazards Arising from the Product

Does not burn.

### Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

No special precautions are necessary.

### Environmental Precautions

It is good practice to prevent releases into the environment.

### Methods and Materials for Containment and Cleaning Up

Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal.

### Other Information

Report spills to local health, safety and environmental authorities, as required.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Do not get in eyes, on skin or on clothing. Avoid generating dusts. Wear personal protective equipment to avoid direct contact with this chemical. General hygiene considerations: wash hands thoroughly after handling this material. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely.

### Conditions for Safe Storage

Store in an area that is: dry. Store in the original, labelled, shipping container.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA PEL: TWA, 8 hour: 15 mg/m<sup>3</sup> (total dust)

OSHA PEL: TWA, 8 hour: 5 mg/m<sup>3</sup> (respirable fraction)

NIOSH REL: TWA, 10 hour: 10 mg/m<sup>3</sup> (total dust)

NIOSH REL: TWA, 10 hour: 5 mg/m<sup>3</sup> (respirable fraction)

TLV® = Threshold Limit Value. TWA = Time-Weighted Average. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. Consult local authorities for provincial or state exposure limits. NIOSH = National Institute for Occupational Safety and Health.

### Appropriate Engineering Controls

The hazard potential of this product is relatively low. General ventilation is usually adequate. Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. For large scale use of this product: do not allow product to accumulate in the air in work or storage areas, or in confined spaces. Use local exhaust ventilation and enclosure, if necessary, to control amount in the air.

### Individual Protection Measures

#### Eye/Face Protection

Wear approved safety glasses.

#### Skin Protection

Clothing should be cleaned before reusing.

#### Respiratory Protection

Wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Dark grey powder. Particle Size: 60 Grit, Range (25-70 microns).
Odour	Odourless
Odour Threshold	Not applicable
pH	Not applicable
Melting Point/Freezing Point	3992 °F (2200 °C) (melting); Not available (freezing)
Boiling point/Initial boiling point	4046 °F (2230 °C)
Boiling Range	Not available
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Will not burn.
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not applicable
Relative Density (water = 1)	2.35
Solubility	Insoluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not applicable
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not available
Viscosity	Not applicable (kinematic); Not applicable (dynamic)
Other Information	
Physical State	Solid

## SECTION 10. STABILITY AND REACTIVITY

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**Reactivity**

Product is stable under normal conditions. Not reactive.

**Chemical Stability**

Normally stable.

**Possibility of Hazardous Reactions**

None expected under normal conditions of storage and use.

**Incompatible Materials**

May react with: strong acids (e.g. hydrochloric acid), strong oxidizing agents (e.g. perchloric acid), strong bases (e.g. sodium hydroxide).

**Hazardous Decomposition Products**

None known.

**SECTION 11. TOXICOLOGICAL INFORMATION****Likely Routes of Exposure**

Inhalation; eye contact.

**Acute Toxicity****LC50 (Inhalation)**

No information was located.

**LD50 (Oral)**

No information was located.

**LD50 (Dermal)**

No information was located.

**Skin Corrosion/Irritation**

May cause very mild irritation based on information for closely related chemicals.

**Serious Eye Damage/Irritation**

Symptoms include sore, red eyes, and tearing.

**STOT (Specific Target Organ Toxicity) - Single Exposure****Inhalation**

May cause nose and throat irritation. At high concentrations may cause lung injury.

**Skin Absorption**

Not harmful.

**Ingestion**

Not harmful.

**Aspiration Hazard**

Not known to be an aspiration hazard.

**STOT (Specific Target Organ Toxicity) - Repeated Exposure**

If inhaled: at high concentrations may cause lung injury.

**Respiratory and/or Skin Sensitization**

Not known to be a skin sensitizer. Not known to be a respiratory sensitizer.

**Carcinogenicity**

Not carcinogenic in this form. In fibrous form: IARC Group 2B, ACGIH Group A2. In whiskered form: IARC Group 2A, ACGIH Group A2. Not listed as a carcinogen by either NTP or OSHA.

**Key to Abbreviations**

ACGIH® = American Conference of Governmental Industrial Hygienists. A2 = Suspected human carcinogen. IARC = International Agency for Research on Cancer. Group 2A = Probably carcinogenic to humans. Group 2B = Possibly carcinogenic to humans. NTP = National Toxicology Program. OSHA = US Occupational Safety and Health Administration.

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## Reproductive Toxicity

### Development of Offspring

Not known to harm the unborn child.

### Sexual Function and Fertility

Not known to cause effects on sexual function or fertility.

### Effects on or via Lactation

Not known to cause effects on or via lactation.

## Germ Cell Mutagenicity

Not known to be a mutagen.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No information was located.

### Persistence and Degradability

No information was located.

### Bioaccumulative Potential

No information was located.

### Mobility in Soil

No information was located.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

## SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT		Non-Regulated		
IMO (Marine)		Non-Regulated		
IATA (Air)		Non-Regulated		
Canadian TDG		Non-Regulated		

**Special Precautions** Not applicable

### Transport in Bulk according to International Maritime Organization Instruments

Not applicable

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

#### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

#### CEPA - National Pollutant Release Inventory (NPRI)

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Not specifically listed.

## USA

### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

## SECTION 16. OTHER INFORMATION

<b>NFPA Rating</b>	<b>Health - 0</b>	<b>Flammability - 0</b>	<b>Instability - 0</b>
<b>SDS Prepared By</b>	B.E.R		
<b>Phone No.</b>	(315) 782-3000		
<b>Date of Preparation</b>	December 08, 2015		
<b>Date of Last Revision</b>	June 30, 2023		
<b>Revision Indicators</b>	Revision 4 reviewed and approved		
<b>Key to Abbreviations</b>	ACGIH® = American Conference of Governmental Industrial Hygienists HSDB® = Hazardous Substances Data Bank IARC = International Agency for Research on Cancer NFPA = National Fire Protection Association NIOSH = National Institute for Occupational Safety and Health NTP = National Toxicology Program OSHA = US Occupational Safety and Health Administration RTECS® = Registry of Toxic Effects of Chemical Substances		
<b>References</b>	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).		
<b>Disclaimer</b>	NOTE: The information contained herein is, to the best of our knowledge, accurate and reliable. However, no warranty is expressed or implied regarding the accuracy of this information, or the results to be obtained from the use thereof.		

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