



## Safety Data Sheet

### Section 1: Identification

#### Product identifier

##### Product Name

- Air Vol Block APS Polymeric Paver Joint Sand

##### Synonyms

- Polymer Sand

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

##### Recommended use

- Consult manufacturer for recommended product use

#### Details of the supplier of the safety data sheet

##### Manufacturer

- Air Vol Block, Inc.  
PO Box 931  
San Luis Obispo, CA 93406  
United States  
www.airvolblock.com  
Sales@airvolblock.com

Telephone (General) • 805-543-1314

#### Emergency telephone number

##### Manufacturer

- 805-543-1314

### Section 2: Hazard Identification

#### United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

#### Classification of the substance or mixture

##### OSHA HCS 2012

- Carcinogenicity 1A  
Specific Target Organ Toxicity Repeated Exposure 1

#### Label elements

##### OSHA HCS 2012

#### DANGER



- Hazard statements** • May cause cancer.  
Causes damage to organs through prolonged or repeated exposure.

#### Precautionary statements

- Prevention** • Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.  
 Do not breathe dust.  
 Wash thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Wear protective gloves/protective clothing/eye protection/face protection.

**Response** • IF exposed or concerned: Get medical advice/attention.  
 Get medical advice/attention if you feel unwell.

**Storage/Disposal** • Store locked up.  
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Other hazards

### OSHA HCS 2012

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

## Section 3 - Composition/Information on Ingredients

### Substances

- Material does not meet the criteria of a substance.

### Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Crystalline silica	CAS:14808-60-7	0% TO 96.6%	NDA	OSHA HCS 2012: Carc. 1A; STOT RE 1 (Lungs, Inhl)	NDA
Powdered Polymer	NDA	3.4%	NDA	OSHA HCS 2012: Not Classified	NDA

## Section 4: First-Aid Measures

### 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 signs/symptoms continue, get medical attention.

#### Skin

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes.

#### Eye

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

#### Ingestion

- Rinse mouth. Do not give anything by mouth to an unconscious person.

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

- Refer to Section 11 - Toxicological Information.

### 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: Fire-Fighting Measures

### Extinguishing media

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

SMALL FIRES: Dry chemical, CO<sub>2</sub>, water spray or regular foam.

### Unsuitable Extinguishing Media

- No data available

### Special hazards arising from the substance or mixture

#### Unusual Fire and Explosion Hazards

- Some may burn, but none ignite readily.

#### Hazardous Combustion Products

- No data available

### 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

### Personal precautions, protective equipment and emergency procedures

#### Personal Precautions

- Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact.

#### Emergency Procedures

- As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. Keep unauthorized personnel away.

### Environmental precautions

- Avoid run off to waterways and sewers.

### Methods and material for containment and cleaning up

#### Containment/Clean-up Measures

- Avoid generating dust.  
SMALL DRY SPILLS: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.  
LARGE SPILLS: Cover powder spill with plastic sheet or tarp to minimize spreading.

## Section 7 - Handling and Storage

### Precautions for safe handling

#### Handling

- Use only with adequate ventilation. Minimize dust generation and accumulation. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe dust. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling.

### Conditions for safe storage, including any incompatibilities

#### Storage

- Keep container closed. Keep dry. Store in a well-ventilated place.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

#### Exposure Limits/Guidelines

	Result	ACGIH	NIOSH	OSHA
Crystalline silica	TWAs	0.025 mg/m <sup>3</sup> TWA (respirable particulate matter)	0.05 mg/m <sup>3</sup> TWA (respirable dust)	50 µg/m <sup>3</sup> TWA (listed under Respirable crystalline silica)

### Exposure Limits Supplemental

#### OSHA

- Crystalline silica (14808-60-7): **Mineral Dusts:** ((250)/(%SiO<sub>2</sub> + 5) mppcf TWA, respirable fraction; (10)/(%SiO<sub>2</sub> + 2) mg/m<sup>3</sup> TWA, respirable fraction)

## Exposure controls

### Engineering Measures/Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is not leakage from the equipment).

### Personal Protective Equipment

#### Respiratory

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

#### Eye/Face

- Wear safety goggles.

#### Skin/Body

- Wear appropriate gloves. Wear long sleeves and/or protective coveralls.

### Environmental Exposure Controls

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

#### 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

### Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Beige and gray sandy mix with no odor. Sandy when dry, after wetted becomes solid.
Color	Beige/gray	Odor	No odor.
Odor Threshold	No data available		
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	No data available
Specific Gravity/Relative Density	No data available	Water Solubility	No data available
Viscosity	No data available		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	No data available	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

## Section 10: Stability and Reactivity

### Reactivity

- No dangerous reaction known under conditions of normal use.

## Chemical stability

- Stable under normal temperatures and pressures.

## Possibility of hazardous reactions

- Hazardous polymerization will not occur.

## Conditions to avoid

- Avoid generating dust.

## Incompatible materials

- No data available

## Hazardous decomposition products

- No data available

## Section 11 - Toxicological Information

### Information on toxicological effects

Components	
Crystalline silica (0% TO 96.6%)	<p>14808-60-7</p> <p><b>Acute Toxicity:</b> Inhalation-Human TClO • 16 mppcf 8 Hour(s) 17.9 Year(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Cough; Lungs, Thorax, or Respiration:Dyspnea;</i> Inhalation-Rat TClO • 200 mg/kg; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Other changes; Nutritional and Gross Metabolic:Changes in Chemistry or Temperature:Fe;</i></p> <p><b>Multi-dose Toxicity:</b> Inhalation-Hamster TClO • 3 mg/m<sup>3</sup> 6 Hour(s) 78 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis (interstitial); Lungs, Thorax, or Respiration:Changes in lung weight;</i> Inhalation-Rat TClO • 80 mg/m<sup>3</sup> 26 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Blood:Changes in spleen; Immunological Including Allergic:Decrease in cellular immune response;</i> Inhalation-Rat TClO • 58 mg/m<sup>3</sup> 13 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Other changes; Endocrine:Changes in thymus weight; Blood:Changes in leucocyte (WBC) count;</i></p> <p><b>Mutagen:</b> Micronucleus test • Unreported Route-Hamster • Lung (Somatic cell) • 160 µg/cm<sup>3</sup>; DNA damage • Unreported Route-Human • Other Cell Type • 120 mg/L 24 Hour(s); Micronucleus test • Unreported Route-Human • Lung (Somatic cell) • 40 µg/cm<sup>3</sup>;</p> <p><b>Tumorigen / Carcinogen:</b> Inhalation-Rat TClO • 50 mg/m<sup>3</sup> 6 Hour(s) 71 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Liver:Tumors</i></p>

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • No data available
Skin corrosion/Irritation	OSHA HCS 2012 • No data available
Serious eye damage/Irritation	OSHA HCS 2012 • No data available
Skin sensitization	OSHA HCS 2012 • No data available
Respiratory sensitization	OSHA HCS 2012 • No data available
Aspiration Hazard	OSHA HCS 2012 • No data available
Carcinogenicity	OSHA HCS 2012 • Carcinogenicity 1A
Germ Cell Mutagenicity	OSHA HCS 2012 • No data available
Toxicity for Reproduction	OSHA HCS 2012 • No data available
STOT-SE	OSHA HCS 2012 • No data available
STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1

**Potential Health Effects****Inhalation****Acute (Immediate)**

- Exposure to dust may cause irritation. Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.

**Chronic (Delayed)**

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

**Skin****Acute (Immediate)**

- Exposure to dust may cause mechanical irritation.

**Chronic (Delayed)**

- No data available

**Eye****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)**

- No data available

**Ingestion****Acute (Immediate)**

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

**Chronic (Delayed)**

- No data available

**Carcinogenic Effects**

- Repeated and prolonged exposure may cause cancer.

<b>Carcinogenic Effects</b>			
	<b>CAS</b>	<b>IARC</b>	<b>NTP</b>
Crystalline silica	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen

**Key to abbreviations**

TC = Toxic Concentration

**Section 12 - Ecological Information****Toxicity**

- Non-mandatory section - information about this substance not compiled for this reason.

**Persistence and degradability**

- Non-mandatory section - information about this substance not compiled for this reason.

**Bioaccumulative potential**

- Non-mandatory section - information about this substance not compiled for this reason.

**Mobility in Soil**

- Non-mandatory section - information about this substance not compiled for this reason.

**Other adverse effects**

- Non-mandatory section - information about this substance not compiled for this reason.

**Section 13 - Disposal Considerations****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

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA

**Special precautions for user** • None known.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** • Not relevant.

## Section 15 - Regulatory Information

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

Inventory		
Component	CAS	TSCA
Crystalline silica	14808-60-7	Yes

### United States

#### Labor

##### U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Crystalline silica 14808-60-7 Not Listed

##### U.S. - OSHA - Specifically Regulated Chemicals

• Crystalline silica 14808-60-7 Not Listed

#### Environment

##### U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Crystalline silica 14808-60-7 Not Listed

##### U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Crystalline silica 14808-60-7 Not Listed

##### U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Crystalline silica 14808-60-7 Not Listed

##### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Crystalline silica 14808-60-7 Not Listed

##### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Crystalline silica 14808-60-7 Not Listed

##### U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Crystalline silica 14808-60-7 Not Listed

##### U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Crystalline silica 14808-60-7 Not Listed

**United States - California****Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Crystalline silica	14808-60-7	Not Listed
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**U.S. - California - Proposition 65 - Developmental Toxicity**

• Crystalline silica	14808-60-7	Not Listed
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**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**

• Crystalline silica	14808-60-7	Not Listed
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**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**

• Crystalline silica	14808-60-7	Not Listed
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**U.S. - California - Proposition 65 - Reproductive Toxicity - Female**

• Crystalline silica	14808-60-7	Not Listed
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**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

• Crystalline silica	14808-60-7	Not Listed
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**Section 16 - Other Information****Revision Date**

- 16/March/2018

**Last Revision Date**

- 16/March/2018

**Preparation Date**

- 16/March/2018

**Disclaimer/Statement of Liability**

- The information herein is given in good faith but no warranty, expressed or implied, is made.

**Key to abbreviations**

NDA = No Data Available