# SAFETY DATA SHEET



## 1. Identification

**Product identifier AR Aggregate** 

Other means of identification None.

Recommended use Not available.

**Recommended restrictions** Workers (and your customers or users in the case of resale) should be informed of the potential

> presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required

under applicable regulations.

### Manufacturer/Importer/Supplier/Distributor information

ErgonArmor, a division of Ergon Asphalt & Emulsions, Inc. **Company Name** 

**Address** 2829 Lakeland Drive Jackson, MS 39232

USA

After hours telephone

1-800-222-7122

number

**Normal work hours** telephone number

1-877-982-7667

Website www.ergonarmor.com E-mail sds@ergon.com

**Emergency 24-hour** 

CHEMTREC: North America 1-800-424-9300 International 1-800-527-3887

telephone number

Information on operation 8:00 a.m. to 5:00 p.m.

hours

# 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Carcinogenicity Category 1

**Environmental hazards** Not classified. **OSHA** defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** May cause cancer.

**Precautionary statement** 

Prevention Do not handle until all safety precautions have been read and understood. Obtain special

instructions before use. Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention. Response

**Storage** Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

# 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
SILICON CARBIDE		409-21-2	99

Material name: AR Aggregate SDS US 1/7 **Chemical name** Common name and synonyms **CAS** number % QUARTZ 14808-60-7

### 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Ingestion Rinse mouth. Get medical attention if symptoms occur. Most important Direct contact with eyes may cause temporary irritation.

symptoms/effects, acute and

delayed

**Indication of immediate** medical attention and special treatment needed

Treat symptomatically.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire.

media Specific hazards arising from

During fire, gases hazardous to health may be formed.

the chemical Special protective equipment

and precautions for

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

firefighters Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Following product recovery, flush area with water.

For waste disposal, see section 13 of the SDS.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places

where dust is formed. Do not breathe dust. Avoid prolonged exposure.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

## Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000) Components **Type** Value **Form** QUARTZ (CAS 14808-60-7) PEL 0.05 mg/m3 Respirable dust. Respirable fraction. SILICON CARBIDE (CAS **PEL** 5 mg/m3 409-21-2) Total dust. 15 mg/m3

SDS US Material name: AR Aggregate

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Components	ssible Exposure Limits (PEL) for M Type	Value	Form	
QUARTZ (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.	
		2.4 mppcf	Respirable.	
SILICON CARBIDE (CAS 409-21-2)	TWA	5 mg/m3	Respirable fraction.	
		15 mg/m3	Total dust.	
		50 mppcf	Total dust.	
		15 mppcf	Respirable fraction.	
US. ACGIH Threshold Limit Components		Value	Form	
	Туре			
QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.	
SILICON CARBIDE (CAS 409-21-2)	TWA	0.1 fibers/cm3	Fiber.	
		3 mg/m3	Respirable fraction.	
		10 mg/m3	Inhalable fraction.	
NIOSH. Immediately Dang Components	perous to Life or Health (IDLH) Val Type	ues, as amended Value		
QUARTZ (CAS 14808-60-7)	IDLH	50 mg/m3		
US. NIOSH: Pocket Guide to Components	to Chemical Hazards Recommende Type	d Exposure Limits (REL) Value	Form	
QUARTZ (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.	
SILICON CARBIDE (CAS 409-21-2)	TWA	5 mg/m3	Respirable.	
		10 mg/m3	Total	
logical limit values	No biological exposure limits noted for the ingredient(s).			
osure guidelines	Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.			
propriate engineering trols	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.			
ividual protection measure Eye/face protection	es, such as personal protective equ Wear safety glasses with side shields			
Skin protection Hand protection	Wear appropriate chemical resistant	gloves.		
Other	Wear suitable protective clothing.			
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.			
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.			
neral hygiene siderations	Always observe good personal hygiene measures, such as washing after handling the material at before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.			

9. Physical and chemical properties

**Appearance** Solid Granular or powder.

**Physical state** Solid. Form Solid. Color Black Odor None. **Odor threshold** Not available. рΗ Not available. Melting point/freezing point Not available.

Material name: AR Aggregate SDS US 3/7 Initial boiling point and

boiling range

Not available.

Flash point Not available. **Evaporation rate** Not available. Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

**Explosive limit - lower** 

(%)

Not available.

**Explosive limit - upper** 

(%)

Not available.

Vapor pressure Not available. Vapor density Not available. Relative density Not available.

Solubility(ies)

Not available. Solubility (water) Not available. **Partition coefficient** 

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** 4712 °F (2600 °C) **Viscosity** Not available.

Other information

**Density** 3.20 g/cm3 estimated

**Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing.

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials.

**Incompatible materials** Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected. Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Not available.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Material name: AR Aggregate SDS US 4/7 Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. Risk of cancer cannot be excluded with prolonged exposure.

# IARC Monographs. Overall Evaluation of Carcinogenicity

**OUARTZ (CAS 14808-60-7)** 1 Carcinogenic to humans.

SILICON CARBIDE (CAS 409-21-2) 2A Probably carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

OUARTZ (CAS 14808-60-7) US. National Toxicology Program (NTP) Report on Carcinogens

OUARTZ (CAS 14808-60-7) Known To Be Human Carcinogen.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity

- single exposure

Not classified.

Specific target organ toxicity

- repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

# 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

**Bioaccumulative potential** No data available. Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

DOT

Not regulated as dangerous goods.

Material name: AR Aggregate SDS US 5/7

#### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

# 15. Regulatory information

**US federal regulations** 

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

### **Toxic Substances Control Act (TSCA)**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

## SARA 304 Emergency release notification

Not regulated.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

**OUARTZ (CAS 14808-60-7)** 

Cancer

lung effects

immune system effects

kidney effects

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Classified hazard categories

Carcinogenicity

# SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act** (SDWA)

Contains component(s) regulated under the Safe Drinking Water Act.

### US state regulations

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

QUARTZ (CAS 14808-60-7) SILICON CARBIDE (CAS 409-21-2)

# California Proposition 65



WARNING: This product can expose you to QUARTZ, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

# California Proposition 65 - CRT: Listed date/Carcinogenic substance

**OUARTZ (CAS 14808-60-7)** Listed: October 1, 1988

### **International Inventories**

On inventory (yes/no)\* Country(s) or region **Inventory name** Australian Inventory of Industrial Chemicals (AICIS) Australia Yes Canada Domestic Substances List (DSL) Yes

Material name: AR Aggregate SDS US 6/7

6761 Version #: 02 Revision date: 01-08-2024 Issue date: 03-14-2019

Country(s) or region	Inventory name On inventory (ye	es/no)*
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

# 16. Other information, including date of preparation or last revision

**Issue date** 03-14-2019 01-08-2024 **Revision date** 

Version # 02

NFPA ratings Health: 2

Flammability: 0 Instability: 0

**Disclaimer** Ergon Armor cannot anticipate all conditions under which this information and its product, or the

> products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

sheet was written based on the best knowledge and experience currently available.

**Revision information** Hazard(s) identification: Hazard statement

Fire-fighting measures: Specific hazards arising from the chemical Exposure controls/personal protection: Appropriate engineering controls

Exposure controls/personal protection: Respiratory protection

Ecological information: Ecotoxicity

GHS: Classification

Material name: AR Aggregate SDS US 7/7 6761 Version #: 02 Revision date: 01-08-2024 Issue date: 03-14-2019