

## **SAFETY DATA SHEET**

#### 1. Identification

Product identifier	HES CEMENT	
Other means of identification	None.	
Recommended use	Mortar.	
<b>Recommended restrictions</b>	None known.	
Manufacturer/Importer/Supplier/Distributor information		
Company Name	ErgonArmor, a division of Ergon Asphalt & Emulsions, Inc.	
Address	2829 Lakeland Drive	
	Jackson, MS 39232	
	USA	
After hours telephone number	1-800-222-7122	
Normal work hours telephone number	1-877-982-7667	
Website	www.ergonarmor.com	
E-mail	sds@ergon.com	
Emergency 24-hour telephone number	CHEMTREC: North America 1-800-424-9300 International 1-800-527-3887	
Information on operation hours	8:00 a.m. to 5:00 p.m.	

#### 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	Carcinogenicity	Category 1
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, repeated exposure	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	May cause cancer. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure.	
Precautionary statement		
Prevention	Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.	

**Response** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment see Section 4 of this SDS. IF ON SKIN: Wash with plenty of water. Wash contaminated clothing before re-use. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Storage	Store in a well-ventilated place. Keep container tightly closed. 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	%
QUARTZ		14808-60-7	60 - 85
Sodium Silicate		1344-09-8	10 - 25

#### 4. First-aid measures

Inhalation	Move to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. If breathing is difficult, give oxygen. Get medical attention.
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.
Eye contact	In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. Get medical attention.
Ingestion	Do not induce vomiting without advice from poison control center. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention.
Most important symptoms/effects, acute and delayed	Not available.
Indication of immediate medical attention and special treatment needed	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. Keep victim warm. Keep victim under observation. Ensure that medical personnel are aware of the material(s) involved, and take

## 5. Fire-fighting measures

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	Not available.
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire fighting equipment/instructions	In the event of fire, cool tanks with water spray.
Specific methods	Cool containers exposed to flames with water until well after the fire is out.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear appropriate protective equipment and clothing during clean-up.
Methods and materials for containment and cleaning up	Not available.
<b>Environmental precautions</b>	Not available.

precautions to protect themselves.

## 7. Handling and storage

including any

incompatibilities

#### Precautions for safe handling Do not breathe dust. Do not get in eyes, on skin, on clothing. Use only with adequate ventilation. Conditions for safe storage, Keep container tightly closed. Keep out of reach of children. Store in a cool, dry place. Use care in handling/storage.

## 8. Exposure controls/personal protection

#### **Occupational exposure limits**

Components	Туре	Value	Form
QUARTZ (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
US. OSHA Table Z-3 (29 C	-		_
Components	Туре	Value	Form
QUARTZ (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limi		Value	Form
Components	Туре		-
QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide			<b>F</b> a
Components	Туре	Value	Form
QUARTZ (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
		0.05 mg/m5	
ological limit values	No biological exposure limits noted for the	5.	
,		e ingredient(s).	
ological limit values	No biological exposure limits noted for the Occupational exposure to nuisance dust (t	e ingredient(s). total and respirable) and re	spirable crystalline silica sho
ological limit values posure guidelines propriate engineering ntrols	No biological exposure limits noted for the Occupational exposure to nuisance dust (t be monitored and controlled. Adequate ventilation should be provided s	e ingredient(s). total and respirable) and re so that exposure limits are i	spirable crystalline silica sho
ological limit values posure guidelines propriate engineering ntrols	No biological exposure limits noted for the Occupational exposure to nuisance dust (t be monitored and controlled. Adequate ventilation should be provided s ventilation, especially in confined areas.	e ingredient(s). total and respirable) and re so that exposure limits are i	spirable crystalline silica sho
ological limit values posure guidelines propriate engineering ntrols dividual protection measure Eye/face protection Skin protection	No biological exposure limits noted for the Occupational exposure to nuisance dust (t be monitored and controlled. Adequate ventilation should be provided s ventilation, especially in confined areas. <b>es, such as personal protective equipme</b> Goggles/face shield are recommended.	e ingredient(s). total and respirable) and re so that exposure limits are i	spirable crystalline silica sho
ological limit values posure guidelines propriate engineering ntrols dividual protection measure Eye/face protection	No biological exposure limits noted for the Occupational exposure to nuisance dust (t be monitored and controlled. Adequate ventilation should be provided s ventilation, especially in confined areas. es, such as personal protective equipment	e ingredient(s). total and respirable) and re so that exposure limits are i	spirable crystalline silica sho
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ological limit values posure guidelines propriate engineering ntrols dividual protection measure Eye/face protection Skin protection Hand protection	No biological exposure limits noted for the Occupational exposure to nuisance dust (t be monitored and controlled. Adequate ventilation should be provided s ventilation, especially in confined areas. <b>es, such as personal protective equipme</b> Goggles/face shield are recommended. Wear protective gloves. Wear appropriate clothing to prevent any	e ingredient(s). total and respirable) and re so that exposure limits are i ent possibility of skin contact v	spirable crystalline silica sho not exceeded. Ensure adequa vith solutions containing 10%
ological limit values posure guidelines propriate engineering ntrols dividual protection measure Eye/face protection Skin protection Hand protection Other	No biological exposure limits noted for the Occupational exposure to nuisance dust (t be monitored and controlled. Adequate ventilation should be provided s ventilation, especially in confined areas. <b>es, such as personal protective equipme</b> Goggles/face shield are recommended. Wear protective gloves. Wear appropriate clothing to prevent any or more of this chemical. When workers are facing concentrations a	e ingredient(s). total and respirable) and re so that exposure limits are i ent possibility of skin contact v	spirable crystalline silica sho not exceeded. Ensure adequa vith solutions containing 10%

## 9. Physical and chemical properties

Appearance	Powder.
Physical state	Solid.
Form	Powder
Color	Neutral
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	450.0 °F (232.2 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or e	xplosive limits

## Flammability limit - lower Not available.

Flammability limit -	Not available.
upper (%)	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	400 °F (204.44 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.

# 10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Not available.
Conditions to avoid	None under normal conditions.
Incompatible materials	Strong oxidizing agents. Strong bases.
Hazardous decomposition products	Oxides of silicon.

## **11.** Toxicological information

## Information on likely routes of exposure

Inhalation	May cause cancer by inhalation.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and	Not available.

toxicological characteristics

#### Information on toxicological effects

Components	Species	Test Results
Sodium Silicate (CAS 1344-09-8)		
<u>Acute</u>		
Oral		
LD50	Rat	1.1 g/kg
* Estimates for product may b	e based on additional component data not shown.	
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitization	on	
Respiratory sensitization	Not available.	
Skin sensitization	May cause skin irritation.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	May cause cancer.	

IARC Monographs. Overall	Evaluation of Carcinogenicity	
QUARTZ (CAS 14808-60-	7) 1 Carcinogenic to humans.	
OSHA Specifically Regulate	ed Substances (29 CFR 1910.1001-1052)	
QUARTZ (CAS 14808-60-	7) Cancer	
US. National Toxicology Pr	ogram (NTP) Report on Carcinogens	
QUARTZ (CAS 14808-60-	7) Known To Be Human Carcinogen.	
Reproductive toxicity	Not classified.	
Specific target organ toxicity - single exposure	May cause respiratory irritation.	
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure by inhalation. Lungs. Silicosis.	
Aspiration hazard	Not available.	
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects	

## **12. Ecological information**

otoxicity	Not expe	cted to be harmful to aquatic organisms.	
Product		Species	Test Results
HES CEMENT			
Aquatic			
Crustacea	EC50	Daphnia	66.3429 mg/l, 48 hours estimated
Fish	LC50	Fish	11771.4287 mg/l, 96 hours estimated
Components		Species	Test Results
Sodium Silicate (CAS	1344-09-8)		
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	0.28 - 0.57 mg/l, 48 hours
Fish	LC50	Western mosquitofish (Gambusia affinis)	1800 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability	Not available.
Bioaccumulative potential	Not available.
Mobility in soil	Not available.
Other adverse effects	Not available.

#### 13. Disposal considerations

Disposal instructions	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Not available.
Contaminated packaging	Not available.

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

## IMDG

Not regulated as dangerous goods.

#### Transport in bulk according to Not available. Annex II of MARPOL 73/78 and the IBC Code

## **15. Regulatory information**

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

	stance List (40 CFR 302.4)	
Not listed.		
SARA 304 Emergency re	lease notification	
Not regulated.		
	ated Substances (29 CFR 1910.1001-1052)	
QUARTZ (CAS 14808-6	60-7) Cancer lung effects	
	immune system effects	
	kidney effects	
-	Reauthorization Act of 1986 (SARA)	
SARA 302 Extremely ha	zardous substance	
Not listed.	Vec	
SARA 311/312 Hazardous chemical	Yes	
Classified hazard	Acute toxicity (any route of exposure)	
categories	Skin corrosion or irritation	
	Serious eye damage or eye irritation Carcinogenicity	
	Specific target organ toxicity (single or repeated exposure)	
SARA 313 (TRI reporting	g)	
Not regulated.		
ther federal regulations		
Clean Air Act (CAA) Sect	tion 112 Hazardous Air Pollutants (HAPs) List	
Not regulated.		
	the 112(v) Assidental Delegas Duswentian (40 CED CO 120)	
	tion 112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Not regulated. Safe Drinking Water Act (SDWA) JS state regulations	Not regulated. WARNING: This product contains a chemical known to the State of	California to cause cancer.
Not regulated. Safe Drinking Water Act (SDWA) JS state regulations California Proposition 69	<ul> <li>Not regulated.</li> <li>WARNING: This product contains a chemical known to the State of the</li></ul>	California to cause cancer.
Not regulated. Safe Drinking Water Act (SDWA) JS state regulations California Proposition 65 California Propositio	<ul> <li>Not regulated.</li> <li>WARNING: This product contains a chemical known to the State of 6</li> <li>5</li> <li>50 65 - CRT: Listed date/Carcinogenic substance</li> </ul>	California to cause cancer.
Not regulated. Safe Drinking Water Act (SDWA) JS state regulations California Proposition 69 California Proposition QUARTZ (CAS 148	<ul> <li>Not regulated.</li> <li>WARNING: This product contains a chemical known to the State of 6</li> <li>5</li> <li>50n 65 - CRT: Listed date/Carcinogenic substance</li> <li>808-60-7)</li> <li>Listed: October 1, 1988</li> </ul>	
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Not regulated. Safe Drinking Water Act (SDWA) JS state regulations California Proposition 65 California Proposition QUARTZ (CAS 148 US. California. Cand 69502.3, subd. (a)) QUARTZ (CAS 148 nternational Inventories	<ul> <li>Not regulated.</li> <li>WARNING: This product contains a chemical known to the State of 0</li> <li>5</li> <li>50 65 - CRT: Listed date/Carcinogenic substance</li> <li>808-60-7) Listed: October 1, 1988</li> <li>idate Chemicals List. Safer Consumer Products Regulations (Cal</li> <li>808-60-7)</li> </ul>	
Not regulated. Safe Drinking Water Act (SDWA) JS state regulations California Proposition 69 California Proposition QUARTZ (CAS 148 US. California. Cand 69502.3, subd. (a)) QUARTZ (CAS 148 International Inventories Country(s) or region	<ul> <li>Not regulated.</li> <li>WARNING: This product contains a chemical known to the State of 0</li> <li>5</li> <li>on 65 - CRT: Listed date/Carcinogenic substance</li> <li>808-60-7) Listed: October 1, 1988</li> <li>idate Chemicals List. Safer Consumer Products Regulations (Cal</li> <li>808-60-7)</li> <li>Inventory name</li> </ul>	. Code Regs, tit. 22, On inventory (yes/no)
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Not regulated. Safe Drinking Water Act (SDWA) JS state regulations California Proposition 69 California Proposition QUARTZ (CAS 148 US. California. Cand 69502.3, subd. (a)) QUARTZ (CAS 148 International Inventories Country(s) or region Australia Canada	<ul> <li>Not regulated.</li> <li>WARNING: This product contains a chemical known to the State of 0</li> <li>5</li> <li>on 65 - CRT: Listed date/Carcinogenic substance</li> <li>808-60-7) Listed: October 1, 1988</li> <li>idate Chemicals List. Safer Consumer Products Regulations (Cal</li> <li>808-60-7)</li> <li>Inventory name</li> <li>Australian Inventory of Chemical Substances (AICS)</li> <li>Domestic Substances List (DSL)</li> </ul>	. Code Regs, tit. 22, On inventory (yes/no) Ye Ye N
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Not regulated. Safe Drinking Water Act (SDWA) JS state regulations California Proposition 65 California Proposition QUARTZ (CAS 148 US. California. Cand 69502.3, subd. (a)) QUARTZ (CAS 148 International Inventories Country(s) or region Australia Canada Canada Canada China	<ul> <li>Not regulated.</li> <li>WARNING: This product contains a chemical known to the State of 0</li> <li>5</li> <li>on 65 - CRT: Listed date/Carcinogenic substance</li> <li>808-60-7) Listed: October 1, 1988</li> <li>idate Chemicals List. Safer Consumer Products Regulations (Cal</li> <li>808-60-7)</li> <li>Inventory name</li> <li>Australian Inventory of Chemical Substances (AICS)</li> <li>Domestic Substances List (DSL)</li> <li>Non-Domestic Substances List (NDSL)</li> <li>Inventory of Existing Chemical Substances in China (IECSC)</li> <li>European Inventory of Existing Commercial Chemical Substances</li> </ul>	. Code Regs, tit. 22, On inventory (yes/no) Ye Ye N Ye Ye
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#### Country(s) or region Inventory name

#### United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*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 country(s).

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

Issue date	01-28-2015
Revision date	09-16-2019
Version #	04
Further information	HMIS® is a registered trade and service mark of the NPCA.
References	ACGIH EPA: AQUIRE database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents HSDB® - Hazardous Substances Data Bank IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision information	This document has undergone significant changes and should be reviewed in its entirety