## SAFETY DATA SHEET



## 1. Identification

**Product identifier HES™ CEMENT** 

Other means of identification None. Recommended use Mortar. **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

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

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

1-800-222-7122

After hours telephone

number

**Normal work hours** 

1-877-982-7667

telephone number

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

Category 1

Specific target organ toxicity, repeated

exposure

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

**Label elements** 



Signal word

**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.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present Response

> 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.

Material name: HES™ CEMENT SDS US 1/7 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

precautions to protect themselves.

# 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

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

and precautions for

firefighters Fire fightina

In the event of fire, cool tanks with water spray.

equipment/instructions

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.

**Environmental precautions** Not available.

## 7. Handling and storage

Precautions for safe handling Conditions for safe storage, including any incompatibilities

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

Material name: HES™ CEMENT SDS US 2/7

## 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminan	ts (29 CFR 1910.1000)
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Components	Type	Value	Form
QUARTZ (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
US. OSHA Table Z-3 (29 CFR 191 Components	10.1000) Type	Value	Form
QUARTZ (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	Form
QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Che Components	mical Hazards Type	Value	Form

**Biological limit values**No biological exposure limits noted for the ingredient(s).

**Exposure guidelines**Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica

should be monitored and controlled.

TWA

Appropriate engineering

QUARTZ (CAS 14808-60-7)

**controls** adequate

Adequate ventilation should be provided so that exposure limits are not exceeded. Ensure

0.05 mg/m3

Respirable dust.

adequate ventilation, especially in confined areas.

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Goggles/face shield are recommended.

Skin protection

**Hand protection** Wear protective gloves.

**Other** Wear appropriate clothing to prevent any possibility of skin contact with solutions containing 10%

or more of this chemical.

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators.

Thermal hazards Not available.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment

to remove contaminants.

## 9. Physical and chemical properties

Appearance	Powder.
Physical state	Liquid.
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 explosive limits
Explosive limit - lower (%)

**Explosive limit - upper** 

**upper** Not available.

(%)

Material name: HES™ CEMENT

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

Solubility(ies)

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

(n-octanol/water)

Auto-ignition temperature 400 °F (204.44 °C) estimated

**Decomposition temperature** Not available. Not available. **Viscosity** 

## 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 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.

**Eve contact** Causes serious eve damage.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Irritating to eyes, respiratory system and skin. Defatting of the skin. Causes serious eye damage.

# Information on toxicological effects

Acute toxicity

**Test Results Product** Species

HES™ CEMENT

Acute **Dermal** 

LD50 90910 mg/kg Rat Components **Species Test Results** 

Sodium Silicate (CAS 1344-09-8)

**Acute** 

Oral

LD50 Rat 1.1 g/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

#### Respiratory or skin sensitization

**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.

Material name: HES™ CEMENT SDS US 4/7

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

IARC Monographs. Overall Evaluation of Carcinogenicity

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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

QUARTZ (CAS 14808-60-7) Cancer

US. National Toxicology Program (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

Not expected to be harmful to aquatic organisms. **Ecotoxicity** Coosias

Product HES™ CEMENT		Species	Test Results
Aquatic			
Crustacea	EC50	Daphnia	66.3429, 48 hours
Fish	LC50	Fish	11771.4287, 96 hours
Acute			
Crustacea	EC50	Daphnia	66.3429, 48 hours estimated
Fish	LC50	Fish	11771.4287, 96 hours estimated
Components		Species	Test Results
Sodium Silicate	(CAS 1344-09-8)		
Aquatic			
Acute			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	>= 0.28 - <= 0.57 mg/l, 48 hours
Fish	LC50	Western mosquitofish (Gambusia affinis)	1800, 96 hours

<sup>\*</sup> 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** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in

accordance with all applicable regulations.

Local disposal regulations Dispose in accordance with all applicable 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). Avoid discharge into water courses or onto the ground.

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

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.

**IATA** 

Not regulated as dangerous goods.

Material name: HES™ CEMENT SDS US

#### **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.

#### **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)

QUARTZ (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** Skin corrosion or irritation

**categories** Serious eye damage or eye irritation

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

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** Not regulated.

(SDWA)

**US state regulations** WARNING: This product contains a chemical known to the State of California to cause cancer.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22,

69502.3, subd. (a))

QUARTZ (CAS 14808-60-7)

**California Proposition 65** 

California Proposition 65 - CRT: Listed date/Carcinogenic substance

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

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

Material name: HES™ CEMENT SDS US

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

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

01-04-2023 **Issue date** 

Version #

**Further information** HMIS® is a registered trade and service mark of the NPCA.

References **ACGIH** 

EPA: AOUIRE 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 quidance 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** Hazard(s) identification: Response

Hazard(s) identification: Prevention

Hazard(s) identification: Hazard statement Hazard(s) identification: Supplemental information

Stability and reactivity: Possibility of hazardous reactions

Stability and reactivity: Reactivity

Toxicological information: Symptoms related to the physical, chemical and toxicological

characteristics

Disposal considerations: Disposal instructions

Disposal considerations: Waste from residues / unused products

Disposal considerations: Contaminated packaging Disposal considerations: Hazardous waste code Disposal considerations: Local disposal regulations

Transport Information: Material Transportation Information

GHS: Classification

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<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 country(s).