# **SAFETY DATA SHEET**



## 1. Identification

Product identifier HES CEMENT - European Grade

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

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

**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 telephone number

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

Information on operation 8:0

hours

8:00 a.m. to 5:00 p.m.

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, inhalation Category 4

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2B
Carcinogenicity Category 1B
Specific target organ toxicity, repeated Category 2

exposure

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

**Label elements** 



Signal word Danger

**Hazard statement** May cause cancer. Causes skin irritation. Causes eye irritation. Harmful if inhaled. May cause

damage to organs through prolonged or repeated exposure.

**Precautionary statement** 

**Prevention** 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. Avoid breathing dust. Use only outdoors or in a well-ventilated area. Wash thoroughly after

handling.

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

> and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor// if you feel unwell. Take off contaminated clothing and wash it before reuse. IF

ON SKIN: Wash with plenty of water/.

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	%	
QUARTZ		14808-60-7	< 90	
Silicic acid, sodium salt (1:2)		N/A	< 30	
ATTAPULGITE CLAY, HYDROUS MAGNESIUM ALUMINUM SILICATE		12174-11-7	< 10	
DISODIUM HEXAFLUOROSILICATE		16893-85-9	< 10	

#### 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

**Indication of immediate** medical attention and special

treatment needed **General information** 

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. Keep victim warm. Keep victim under

Firefighters must use standard protective equipment including flame retardant coat, helmet with

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.

Not available.

Unsuitable extinguishing

media

Not available.

Specific hazards arising from

the chemical

Not applicable.

Special protective equipment

and precautions for firefighters

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.

Material name: HES CEMENT - European Grade 6097 Version #: 01 Issue date: 12-01-2016 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 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.

# 8. Exposure controls/personal protection

## **Occupational exposure limits**

incompatibilities

<b>US. OSHA Table Z-1 Limits for Air Contamin</b>	nants (29 CFR 1910.1000)
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Components	Туре	Value
DISODIUM HEXAFLUOROSILICATE (CAS 16893-85-9)	PEL	2.5 mg/m3

#### US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Туре	Value	Form	
DISODIUM	TWA	2.5 mg/m3	Dust.	
HEXAFLUOROSILICATE				

(CAS 16893-85-9) **US. OSHA Table Z-3 (29 CFR 1910.1000)** 

Components	Туре	Value	Form	
QUARTZ (CAS 14808-60-7)	TWA	0.3 mg/m3	Total dust.	
		0.1 mg/m3	Respirable.	
		2.4 mppcf	Respirable.	

# US. ACGIH Threshold Limit Values Components

- Components	.,,,,	
DISODIUM	TWA	2.5 mg/m3
HEXAFLUOROSILICATE		-
(CAS 16893-85-9)		

Tyne

QUARTZ (CAS 14808-60-7)	TWA
<b>US. NIOSH: Pocket Guide to Chemica</b>	l Hazards

Components	Туре	Value	Form
DISODIUM HEXAFLUOROSILICATE (CAS 16893-85-9)	TWA	2.5 mg/m3	
QUARTZ (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.

# **Biological limit values**

## **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time	
DISODIUM HEXAFLUOROSILICATE (CAS 16893-85-9)	3 mg/l	Fluoride	Urine	*	
	2 mg/l	Fluoride	Urine	*	

<sup>\* -</sup> For sampling details, please see the source document.

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

be monitored and controlled.

**controls** ventilation, especially in confined areas.

#### Individual protection measures, such as personal protective equipment

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

Skin protection

Appropriate engineering

**Hand protection** Wear protective gloves.

Material name: HES CEMENT - European Grade 6097 Version #: 01 Issue date: 12-01-2016 **Form** 

Respirable fraction.

Value

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

0.025 mg/m3

**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 Solid.
Form Powder
Color White.
Odor Odorless.
Odor threshold Not available.

**pH** 11.5

**Melting point/freezing point** Not available. **Initial boiling point and** Not available.

boiling range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(o/ )

(%)

Flammability limit -

upper (%)

Not available.

Not available.

Explosive limit - lower

(%)

Explosive limit - upper

(%)

Not available.

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot 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.

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# 11. Toxicological information

Information on likely routes of exposure

**Inhalation** May cause cancer by inhalation.

**Skin contact**Causes skin irritation. **Eye contact**Irritating to eyes.

**Ingestion** May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

Information on toxicological effects

**Acute toxicity** 

irritation

Components Species Test Results

DISODIUM HEXAFLUOROSILICATE (CAS 16893-85-9)

Acute Oral

LD50 Rat 125 mg/kg

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

Skin corrosion/irritation

Serious eye damage/eye

Not available.

**e** Dust in the eyes may cause irritation.

Respiratory or skin sensitization

**Respiratory sensitization** Not available. **Skin sensitization** Irritating to skin.

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

mutagenic or genotoxic.

**Carcinogenicity** Hazardous by OSHA criteria. Occupational exposure to respirable dust and respirable crystalline

silica should be monitored and controlled. 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.)

IARC Monographs. Overall Evaluation of Carcinogenicity

ATTAPULGITE CLAY, HYDROUS MAGNESIUM ALUMINUM 2B Possibly carcinogenic to humans.

SILICATE (CAS 12174-11-7)

3 Not classifiable as to carcinogenicity to humans.

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

**US. National Toxicology Program (NTP) Report on Carcinogens** 

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

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

**Reproductive toxicity** Not classified. **Specific target organ toxicity** Not available.

- single exposure

Specific target organ toxicity

Not available.

- repeated exposure

**Aspiration hazard** Not available.

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

**Further information** Occupational exposure to the substance or mixture may cause adverse effects.

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## 12. Ecological information

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

Product Species Test Results

HES CEMENT - European Grade

**Aquatic** 

Fish LC50 Fish 2090 mg/l, 96 hours estimated

Components Species Test Results

DISODIUM HEXAFLUOROSILICATE (CAS 16893-85-9)

**Aquatic** 

Fish LC50 Bluegill (Lepomis macrochirus) 49 mg/l, 96 hours

Persistence and degradabilityNot available.Bioaccumulative potentialNot available.Mobility in soilNot available.Other adverse effectsNot available.

#### 13. Disposal considerations

**Disposal instructions** Dispose in accordance with all applicable regulations.

**Hazardous waste code**Waste from residues /
Not regulated.
Not available.

unused products

**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.

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

Not regulated.

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

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312** No

Hazardous chemical

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

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

ATTAPULGITE CLAY, HYDROUS MAGNESIUM Listed: December 28, 1999

ALUMINUM SILICATE (CAS 12174-11-7)

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

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

ATTAPULGITE CLAY, HYDROUS MAGNESIUM ALUMINUM SILICATE (CAS 12174-11-7) QUARTZ (CAS 14808-60-7)

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	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)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

<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** 12-01-2016

Version # 01

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

**NFPA ratings** Health: 2

Flammability: 0 Instability: 0

**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

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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).

#### **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.

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