



## Safety Data Sheet

### Section 1: Identification of the Product/Company

#### Product Identifier:

**Product Name:** ENDURO-FLEXKOTE EFC Cementitious Mix ----- EFC Gray or White

**Product Code:**

#### Relevant identified uses of the substance or mixture

##### Recommended use:

For professional use in the construction industry

##### Uses advised against:

None identified

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

##### Manufacturer:

Enduro Products  
1133 N. Pratt Street  
Anaheim, CA 92801  
United States  
[www.endurokote.com](http://www.endurokote.com)  
(714) 526-5898

Telephone (General)

#### Emergency telephone number

**Manufacturer:** (714) 526-5898 USA

### Section 2: Hazards Identification

#### Classification of the substance or mixture

##### GHS-US classification

Skin Corrosion/Irritation:	Category 2, H315
Eye Damage:	Category 1, H318
Skin Sensitization:	Category 1, H317
Carcinogenicity:	Category 1A, H350
Specific target organ systemic toxicity (single exposure):	Category 3, H335
Specific target organ systemic toxicity (repeated exposure):	Category 1, H372

Page 1 of 13

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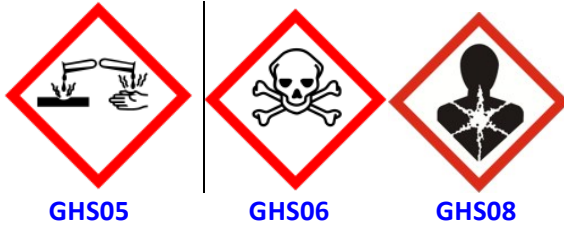
## Safety Data Sheet

### Label elements

#### GHS-US labeling

The substance is classified and labeled according to the Globally Harmonized System (GHS).

#### Hazard Pictograms (GHS-US)



#### Signal words (GHS-US):

Danger

#### Hazards statements (GHS-US):

H315 Causes skin irritation  
H317 May cause an allergic skin reaction  
H318 Causes serious eye damage  
H335 May cause respiratory irritation  
H350 May cause cancer  
H372 Cause damage to organs through prolonged or repeated use

#### Precautionary statements (GHS-US)

##### Prevention:

P102 Keep out of reach of children  
P280 Wear protective gloves, clothing, and eye/face protection  
P264 Wash skin after handling  
P281 Wear protective clothing as needed

#### Response:

P305 + P351 + P338 + P310: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a Poison Center or doctor/physician.



## Safety Data Sheet

P302 + P352 + P333 + P313: Wash with plenty soap and water. If skin irritation or rash occurs: Get medical advice/attention

P261 + P304 + P340 + P312: Avoid breathing dust/fumes, gas, mist, vapors, spray. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician

### Storage:

P403+P233 store in a well-ventilated place. Keep container tightly closed

P403 + P235 Store in a well-ventilated place. Keep cool

P405 Store locked up

### Disposal:

P501 Dispose of contents and containers in accordance with local, regional and international regulations

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)-Annex III

### Other hazards

No other information available

### Unknown acute toxicity (GHS-US)

No data available

## Section 3: Composition/information on ingredients

### Substances

Name	Product Identifier	% by weight	GHS-US classification
Ordinary Portland Cement	CAS # 65997-15-1	5-30	Skin irritant 2, H315 STOT SE 3, H335 Eye irritant, H318 Skin sensitization 1, H317
Sand	CAS # 14808-60-7	55-85	STOT SE 3, H335



## Safety Data Sheet

			STOT RE 1, H372 Carc. 1A, H350
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Amounts specified are typical and do not represent a specification. Any other ingredients are either proprietary, non-hazardous or present in amounts below the reportable limits.

### Section 4: First aid measures

#### Description of necessary first aid measures

##### First-aid measures general:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

##### First-aid measures after inhalation:

If affected, remove to fresh air. Dust in throat or nasal passage should clear spontaneously. Get medical attention if irritation persists or any discomfort, coughing or other symptoms continue or do not subside.

##### First-aid measures after skin contact:

Immediately remove contaminated clothing and shoes. Launder clothing before reuse. Seek medical attention if symptoms of irritation or burns occur.

##### First-aid measures after eye contact:

Do not rub eyes as additional corneal damage will continue to occur. Remove any contact lenses and open eyelids widely to flush immediately by thoroughly rinsing with plenty of clean water for at least 45 minutes to remove all particles. If possible use isotonic water (0.9% Sodium Chloride). Contact an eye specialist immediately.

##### First-aid measures after ingestion:

Do not induce vomiting. Call a physician or poison control center immediately for further instructions. Never give anything by mouth to an unconscious or convulsing person. If person is conscious, rinse out the mouth with water and give plenty of water to drink. Get medical attention immediately.

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

##### Symptoms:

Irritation may occur. Pre-existing skin problems may be aggravated by prolonged or repeated contact.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically



## Safety Data Sheet

### Section 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing media:

All type of extinguishing media are suitable

##### Unsuitable extinguishing media:

None known

#### Special hazards arising from the substance or mixture

##### Fire hazard:

Poses no fire related hazard. Non-combustible material

##### Explosion hazard:

Non-explosive

##### Reactivity:

Will not facilitate or support combustion of other materials.

#### Advice for firefighters

##### Firefighting instructions:

Not required

##### Protection during firefighting:

No need for specialist fire-fighting equipment.

#### Additional information

### Section 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

##### General measures:

Wear protective equipment as described under Section 8 and follow the advice of safe handling and use given under Section 7. Emergency procedures are not required.

##### For non-emergency personnel

##### Protective equipment:

Wear chemical resistance (impervious) gloves

##### Emergency procedures:

None required

##### For emergency responders

##### Protective equipment:

Not Applicable

##### Emergency procedures:

Not Applicable



## Safety Data Sheet

### Environmental precautions

Do not allow to enter drains, sewers or watercourses.

### Methods and material for containment and cleaning up

#### For containment:

Recover spillage in a dry state if possible.

#### Methods for cleaning up:

Use dry cleanup methods that do not promote airborne dispersions e.g.

Vacuum cleaner (Industrial portable units, equipped with high efficiency particulate filters (HEPA filter) or equivalent technique).

- Wipe up the dust by mopping, wet brushing or water sprays or hoses (fine mist to avoid the dust becoming airborne) and remove slurry. If not possible, remove by slurring with water (see Wet product).

When wet cleaning or vacuum cleaning is not possible and only dry cleaning with brushes can be done, ensure that the workers wear appropriate personal protective equipment and prevent dust from spreading.

Avoid inhalation of product and contact with skin. Place spilled materials into a container. Solidify before disposal as described under Heading 13.

*Wet product:* Clean up wet product and place in a container. Allow material to dry and solidify before disposal as described under Heading 13.

### Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protective equipment

See Section 13 for disposal information

## Section 7: Handling and storage

Do not handle or store near food and beverages or smoking material

### Precautions for safe handling

#### Precautions for safe handling:

Do not ingest, avoid contact with skin and avoid contact with eyes. Avoid generating dust.

#### Hygiene measures:

General occupational hygiene measures are required to ensure safe handling of the product. These measures involve good personal and house-keeping practices. Wash hands after use if contaminated. Avoid wearing contaminated clothing. In dusty environment, wear dust mask, protective goggles and gloves.

### Conditions for safe storage, including any incompatibilities

#### Storage conditions:



## Safety Data Sheet

Bulk material should be stored in silos that are waterproof. Packed products should be stored in unopened bags clear of the ground in cool, dry conditions and protected from excessive draught, humid conditions and excesses of temperatures to avoid degradation of quality.

**Incompatible products:**

See section 10

**Incompatible materials:**

See section 10

**Storage area:**

The product should be stored in a cool, dry and well-ventilated area, at ambient temperature directly out of the sunlight.

**Special rules on packaging:**

Bags should be stacked in a stable manner. Do not use Aluminum containers due to incompatibility of the materials.

**Specific end use(s)**

### Section 8: Exposure controls/personal protection

**Control parameters**

**Occupational exposure limits:**

Chemical Name	CAS #	EXPOSURE LIMITS
Ordinary Portland Cement	65997-15-1	OSHA PEL 5mg/m <sup>3</sup> ACGIH TLV 1mg/m <sup>3</sup>
Sand	14808-60-7	OSHA PEL .05 mg/m <sup>3</sup> ACGIH TLV .025 mg/m <sup>3</sup>

**Exposure controls**

Appropriate engineering controls:

Use only with adequate ventilation. If the operation generates dust, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure of airborne particulates below any recommended or statutory limits

Personal protective equipment:



## Safety Data Sheet

Hand protection:	Wear fire-proof clothing, protective goggles and gloves. Wear respiratory protection in a poor ventilated environment.
Eye protection:	Wear impervious, waterproof, abrasion and alkali resistant gloves. Do not rely on barrier cream versus abrasion resistant gloves. Do not allow product inside the gloves.
Skin and body protection:	Chemical goggles or safety glasses with side-shields should be worn especially in a dust environment. Use contact lenses solely is not recommended.
Respiratory protection:	Wear impervious, waterproof, abrasion and alkali resistant boots and protective long sleeved and long legged clothing to protect the skin from contact with this product. Remove any clothing that becomes saturated with this product and thoroughly wash the exposed areas immediately.
Thermal hazard protection:	If a risk assessment indicates the necessity for respiratory protection, use a properly fitted particulate filter respirator. Selection of respirator will be based upon the hazards of the product, the known or anticipated exposure levels and the assigned protection factor of the respirator.
Other information:	Wear suitable protection clothing  Clean water should always be available for skin and emergency (eye) washing. Periodically wash any area contacted with the product using a pH neutral soap and uncontaminated water. When using, do not eat, drink or smoke

## Section 9: Physical and chemical properties

### Information on basic physical and chemical properties

<b>Physical state:</b>	Solid
<b>Appearance:</b>	Powdery material





## Safety Data Sheet

<b>Color:</b>	Gray, White,
<b>Odor:</b>	Odorless
<b>Odor threshold:</b>	Not available
<b>pH:</b>	12-13
<b>Relative evaporation rate (butyl acetate=1):</b>	Not Applicable
<b>Melting point:</b>	Not available
<b>Boiling point:</b>	Not determined
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not Determined
<b>Flammability (solid, gas):</b>	Not Applicable
<b>Vapor pressure:</b>	Not Determined
<b>Flash Point:</b>	Not Applicable
<b>Flash Point Method:</b>	Not Applicable
<b>Relative vapor density @ 20 ° C:</b>	0.0
<b>Relative density:</b>	2.5
<b>Density:</b>	20.8 lbs / gal
<b>Solubility:</b>	0.1-1%
<b>Log Pow:</b>	Not available
<b>Log Kow:</b>	Not available
<b>Viscosity, kinematic:</b>	Not available
<b>Viscosity, dynamic:</b>	Not available
<b>Explosive properties:</b>	Non-explosive
<b>Oxidizing properties:</b>	None known
<b>Explosive limits:</b>	Not Applicable

### Other information:

No further relevant information available

## Section 10: Stability and reactivity

### Reactivity

No data available

### Chemical Stability

Product is stable under normal storage conditions

### Conditions to Avoid

Avoid humid conditions during storage as this might cause lumps and loss of product quality

### Incompatible Materials

Avoid strong acids, bases and strong oxidizers and avoid the uncontrolled use of Aluminum powder in the wet product as Hydrogen will be produced.

### Hazardous Decomposition Products



## Safety Data Sheet

Product will not decompose into other hazardous by-products and will not polymerize

### Section 11: Toxicological information

#### Information on toxicological effects

##### TOXICITY MEASURES:

##### Acute toxicity:

Based upon available data, the classification criteria are not met

##### Skin corrosion/irritation: (Category 2)

When in contact with wet skin may cause thickening, cracking or fissuring on the skin. Prolonged contact in addition with abrasion may cause severe burns.

##### Serious eye damage/irritation: (Category 1)

Direct contact may cause corneal damage by mechanical stress, immediate or delayed irritation or inflammation. Direct contact by large amounts may cause effects ranging from moderate irritation to chemical burns and blindness.

##### Respiratory or skin sensitization: (Category 1)

Some individuals may develop eczema upon exposure by the high pH which induces irritant contact dermatitis after prolonged contact. The response may appear in a variety of forms ranging from a mild rash to severe dermatitis. There is no indication of sensitization to the respiratory system.

##### Germ cell mutagenicity:

This product is not classified as a mutagen

##### Chronic Health Effects:

Respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by the International Agency for Research on Cancer (IARC) and National Toxicology Program (NTP) as a lung carcinogen. Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. While there may be a factor of individual susceptibility to a given exposure to respirable silica dust, the risk of contracting silicosis and the severity of the disease is clearly related to the amount of dust exposure and the length of time (usually years) of exposure.

##### Carcinogenicity:

The product contains an ingredient that may cause cancer.

##### Reproductive toxicity:

Developmental: Based on available data, the criteria are not met

Teratogenicity: Not hazardous by WHMIS/OSHA criteria

Embryotoxicity: Not hazardous by WHMIS/OSHA criteria

Fertility: Based on available data, the criteria are not met

##### Specific target organ toxicity (single exposure):

May cause respiratory irritation

##### Specific target organ toxicity (repeated exposure):



## Safety Data Sheet

May cause damage to organs through prolonged or repeated exposure

### **Aspiration hazard:**

Based on available data, the criteria are not met

### **Other information:**

Not available

## Section 12: Ecological information

All work practices must be aimed at eliminating environmental contamination.

### **Toxicity**

The product is not expected to be hazardous to the environment, but because of its high alkalinity the product may be toxic to aquatic life under certain conditions.

### **Persistence and degradability**

Not relevant as the components are inorganic and after hardening presents no toxicity risks.

### **Mobility**

Products is not volatile but may become airborne during handling operation.

### **Other adverse effects**

Not determined for this product

## Section 13: Disposal considerations

### **Waste treatment methods**

#### **Regional legislation (waste):**

Dispose of waste and unused contents in accordance with national and local regulations.

#### **Waste disposal recommendations:**

Ensure the use of properly authorized waste management companies where appropriate or uncertain.

## Section 14: Transport information

The product is not covered by the international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID) and therefore no classification is required.

## Section 15: Regulatory information

### **U.S. Federal Regulations**



## Safety Data Sheet

### U.S. OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations

### U.S SARA Reporting Requirements:

The following components of this product are subject to reporting requirements of sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.

CHEMICAL	SECTION 302 EHS (TPQ) (40 CFR 355, Appendix A)	SECTION 304 RQ (40 CFR Table 302.4)	SECTION 313 TRI (40 CFR 372.65)
Ordinary Portland Cement	No	No	No
Sand	No	No	No

### A Section 311/312 (40 CFR 370) Hazard Categories:

ACUTE: Yes; CHRONIC: Yes; FIRE: No; REACTIVE: No; SUDDEN RELEASE: No

### Toxic Substances Control Act (TSCA):

All components of this product are included on the TSCA inventory

### U.S. CERCLA Reportable Quantity (RQ):

This product is not listed under CERCLA

### U.S. Clean Air Act Threshold Quantity (TQ):

This product is not listed.

### U.S. Clean Water Act Requirements:

This product is not listed

### California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):

This product contains crystalline silica, quartz and may also contain trace amounts of other chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

### Canadian WHMIS Classification:

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### Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:

### European Inventory of Existing Chemicals (EINECS):

All of the components of this product are included on EINECS.

## Section 16: Other information

### Indication of changes:

### Other information:

Full text of H phrases:

<b>STOT SE 3</b>	Specific Target Organ Toxicity-Single Exposure, Category 3, Narcosis
<b>STOT RE 1</b>	Specific Target Organ Toxicity-Repeated Exposure, Category 1



## Safety Data Sheet

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**NFPA health hazard:** 2-Moderately toxic or hazardous material which require additional PPE or equipment other than safety goggles and gloves.

**NFPA fire hazard:** 0-Material is not combustible

**NFPA reactivity:** 0-Normally stable, even under fire exposure conditions, and not reactive with water

### Notice to Reader

The information provided herein is believed to be accurate at the time of preparation or prepared from sources deemed to be reliable, but it is the full responsibility of the user to investigate and comprehend other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. Enduro Products **makes no warranty, expressed or implied, concerning the product or merchantability or fitness thereof for any purpose or concerning the accuracy of any information provided by Enduro Products**, except that the product shall conform to Enduro Products' specification.