

# SAFETY DATA SHEET

Conforming to Regulation (EC) No. 453/2010



Revision Date: 12-Jun-2019

Revision number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product Identifier

#### Product Name

**MICROSTIM™ (All Grades)**

CAS / EC No: 68131-74-8 / 931-322-8  
REACH registration: 01-2119491179-27-0073

### Relevant identified uses of the substance or mixture and uses advised against

Recommended Use: Well Fracturing Proppant, light weight aggregate, filter aid

Uses Advised Against: inert material, no information available

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

EPI Group Ltd  
25 High Street  
Cobham, Surrey  
KT11 3DH, United Kingdom

**Emergency Phone Number:** +44 3333 580 230 or +44 7717 347 215

## 2. HAZARDS IDENTIFICATION

### **Classification of the substance or mixture**

According to criteria of Directive EC 67/548/EEC and Regulation (EC) 1272/2008 the substance is not classified as hazardous

### **Label elements**

According to criteria of Directive EC 67/548/EEC and Regulation (EC) 1272/2008 the substance does not need to be labelled

### **Other hazards**

no special remarkable hazards

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

EC No:	931-322-8
EC Name	Ashes (residues), coal

Purity:	100% (UVCB)
Synonyms:	Fly Ash, Pulverised Fuel Ash (PFA)

#### Additional Information

Substance is a UVCB-substance composed of glassy/amorphous material and mineral phases. Its chemical composition is preferably analysed as elements and reported as the mass percent of each equivalent oxide, e. g. SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, Fe<sub>2</sub>O<sub>3</sub>, CaO.

#### Mixtures

- not applicable

### 4. FIRST AID MEASURES

#### Description of first aid measures

- Inhalation	No particular measures required.
- Ingestion	Drink plenty of water (in case you feel unwell consult doctor).
- Skin contact	Dust has to be rinsed with water (if irritation persists contact doctor).
- Eye contact	Dust has to be rinsed with water (if irritation persists contact doctor).
Notes for the doctor	No allergic reactions known, mineral dust

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

- skin and eye irritation might occur

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

- not appropriate

### 5. FIRE FIGHTING MEASURES

#### Extinguishing media

The substance is not combustible. Use any means suitable for extinguishing surrounding fire.

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

- none

#### Advice for fire fighters

- not appropriate

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

- avoid creating airborne dust wherever possible, see sections 8 PPE and 13 waste disposal

### Environmental precautions

- avoid creating airborne dust wherever possible, see sections 8 PPE and 13 waste disposal

### Methods and material for containment and cleaning up

- Spills: Sweep together and containerize for reclamation or disposal. Dry vacuum or wet cleaning with mechanical devices may be used to avoid dust dispersal.

### Reference to other sections

- for personal protection see section 8  
- for waste disposal see section 13

## 7. HANDLING AND STORAGE

### Precautions for safe handling

- avoid creating airborne dust wherever possible  
- do not eat, drink and smoke in working areas  
- wear appropriate protective clothing (e.g. goggles, gloves)  
- avoid prolonged skin contact  
- wash hands after work

### Conditions for safe storage, including any incompatibilities

- no special requirements

### Specific end use(s)

- not applicable

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

10mg/m<sup>3</sup> Inhalable 8 Hour TWA  
4mg/m<sup>3</sup> Respirable 8 Hour TWA

### Exposure controls

- for closed cycles	[care for dedusting installations]
- for semi-closed and open cycles	[care for sufficient ventilation or wetting the ash]
- Eye / face protection	Safety goggles / face shield if potential for contact is existing
- Skin (hand) protection:	Gloves if potential for contact is given; further measures for body protection are usually not necessary

- Respiratory protection	no special protective equipment required if dust occurs constantly – use respiratory dust mask

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Parameter	Value/comment	unit	method
Form	Fine grained powder	-	Visual
Colour	Greyish black to brown	-	Visual
Odour	None	-	-
Density	2.2 (2.0-2.6)	g/cm <sup>3</sup>	EN 1097-6
Bulk density	1.0 (0.8-1.2)	g/cm <sup>3</sup>	EN 1097-3
pH	<12.5	-	(1:10:20°C)
Water Solubility (20°C)	1 (0.7-1.4)	g/l	

### Other information

- not applicable

## 10. STABILITY AND REACTIVITY

### Reactivity

- no reactivity hazards

### Chemical Stability

- stable under normal conditions

### Possibility of hazardous reactions

- not applicable as material is not hazardous and no reactivity hazards are to be expected

### Conditions to avoid

- no special requirements

### incompatible materials

- no incompatible materials known

### hazardous decomposition products

- not applicable as no hazardous properties

## 11. TOXICOLOGICAL INFORMATION

Potential health effects	the substance is not classified as hazardous
Acute toxicity - oral, inhalation, dermal	no acute toxicity
Irritation - Skin, eye irritation	not irritating
Corrosivity	not corrosive
Sensitisation	not sensitising

Repeated dose toxicity	no repeated toxicity
Mutagenicity	not mutagen
Carcinogenicity	no carcinogenetic effects are known
Toxicity to reproduction	no reproduction toxicity

## 12. ECOLOGICAL INFORMATION

Toxicity	- the substance is not classified as hazardous - no aquatic toxicity - no toxicity in sewage treatment plants
Persistence and degradability	- not applicable: inorganic substance - neither photo- or chemical degradation, nor biodegradation is expected
Bio accumulative potential	not applicable: inorganic substance - significant bioaccumulation is not expected
Mobility in soil	-Moderately mobile in soil -Adsorption to soil particles is possible -Leaching of main compounds (SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> ) is not expected
Results of PBT and vPvB assessment	- no PBT and vPvB properties
Other adverse effects	No other adverse effects are known Due to the CLP system the substance has not to be labelled as dangerous for the environment. On the basis of existing data about the elimination, degradation and bioaccumulation potential longer term damage to the environment is unlikely.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Ashes (residues), coal have to be disposed by national regulations for non-hazardous wastes; no further special treatment methods are necessary

Waste codes / waste designation according to EWC

10 WASTES FROM THERMAL PROCESSES

10 01 wastes from power stations and other combustion plants (except 19)

10 01 02 coal fly ash

10 01 17 fly ash from co-incineration other than those mentioned in 10 01 16

## 14. TRANSPORT INFORMATION

Not dangerous goods according to the regulation's ADR, IMDG and IATA

## 15. REGULATORY INFORMATION

### **Safety, health and environmental regulations/legislation specific for the substance or mixture**

ashes (residues), coal do not require any labelling

### **Chemical safety assessment**

ashes (residues), coal do not require any labelling

### **Water Pollution Class**

not hazardous

## 16. OTHER INFORMATION

The Information in this safety data sheet describes the safety requirements of the product and is based on the present knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.