

<b>Substance Information Sheet (SIS) for JS_Ashes (residues), coal</b>			
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## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

### 1.1 Product identifier:

EC no. 931-322-8	Ashes (residues), coal
REACH registration nr	01-2119491179-27-XXXX
Synonyms	Fly Ash; Pulverized Fuel Ash (PFA); Ash from burning hard coal, where applicable with co-combustion of secondary fuels
Trade names	e.g. steament <sup>®</sup> , steafill <sup>®</sup> , Moorment, Wilhament <sup>®</sup> , TRIAmant, Betoment

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

Relevant identified uses:	Mineral raw material and construction material in cement, bound application in cement – (mortar, concrete), lime – ( ), ceramic – (brick, refractory), bituminous – (filler) and organic (filler for polymere rubber) based materials and unbound applications (road construction, fill, metallurgy)
Use advised against:	Not appropriate

#### Note:

Ashes registered under “JS\_Ashes (residues), coal” do not possess hazardous properties. To avoid confusion no Safety Data Sheet (SDS) is prepared. The information given by this Substance Information Sheet (SIS) follows by structure and content Annex II of REACH-regulation (EC No 1907/2006 and amendment 453/2010) regarding the preparation of a SDS. Special Information e.g. PNECs (predicted no-effect level) and DNELs (derived no-effect level) left out in the SIS is available in the Chemical Safety Report (CSR).

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### 1.3 Details of the supplier of the substance information sheet

Producer/supplier:	EP Power Minerals GmbH
Street/P.O. Box:	Duisburger Str. 170
Nat. code/postcode, place:	D-46535 Dinslaken
Phone:	+49 (0) 2064 – 608 404
Fax:	+49 (0) 2064 – 608 47404
Responsible Person	Dipl.-Ing. Martin Pielke
Phone:	+49 (0) 2064 – 608 319
Fax	+49 (0) 2064 – 608 47319
Email	m.pielke@ep-pm.com

### 1.4 Emergency telephone number

National:	See local listing	Emergency number:	See local listing
Supplier:	8:00 – 17:00	Tel:	+49 (0) 2064 – 608 319
	8:00 – 17:00	Mobil:	+49 (0) 173 – 5344980

## 2. HAZARDS IDENTIFICATION

### 2.1 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

### 2.2 Label elements

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

### 2.3 Other hazards

- no special remarkable hazards

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

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

Purity:	100 % (UVCB)
Synonyms:	see 1.1

#### Additional information

Substance is a UVCB-substance composed of glassy/amorphous material and mineral phases. Its chemical composition is preferably analyzed 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.

### 4. FIRST AID MEASURES

#### 4.1 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, eye bath (if irritation persists contact doctor).
- Notes for the doctor	No allergic reactions known, mineral dust

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

- skin and eye irritation might occur

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

- not appropriate

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

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

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## 5.2 Special hazards arising from the substance or mixture

-none

## 5.3 Advice for fire fighters

- not appropriate

## 6. ACCIDENTAL RELEASE MEASURES

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

- avoid creating airborne dust wherever possible  
see 6.4

### 6.2 Environmental precautions

- avoid creating airborne dust wherever possible  
see 6.4

### 6.3 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.

### 6.4 Reference to other sections

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

## 7. HANDLING AND STORAGE

### 7.1 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

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## 7.2 Conditions for safe storage, including any incompatibilities

- no special requirements

## 7.3 Specific end use(s)

- not applicable

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

- The current occupational exposure limits for respirable dust in the European Union (1,25 - 10 mg/m<sup>3</sup>) should apply

### 8.2 Exposure controls

- appropriate engineering controls

- for closed cycles	care for dedusting installations
- for semi-closed or open cycles	care for dedusting installations; care for sufficient ventilation or wetting the ash

- individual protection measures

- Eye / face protection	use of goggles is recommended if airborne dust occurs
- Skin (hand) protection:	Gloves if regular contact; further measures for body protection are usually not necessary
- Respiratory protection	no special protective equipment required; if dust occurs constantly – use respiratory dust mask

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### - Physical

Parameter	value/comment	unit	method
Form	fine grained powder	-	visual
Colour	greyish black to brown	-	visual
Odour	no	-	-
Density	2.3 (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

#### - Chemical

Parameter	value/comment	unit	method
pH	< 12,5	-	(1:10; 20°C)
Water solubility (20°C)	1 (0.7 – 1.4)	g/l	(1:10)

All other parameters as given in Annex 2 of REACH-regulation are evaluated as not applicable.

### 9.2 Other information

- not applicable

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

- no reactivity hazards

### 10.2 Chemical stability

- stable under normal conditions

### 10.3 Possibility of hazardous reactions

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

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#### 10.4 Conditions to avoid

- no special requirements

#### 10.5 incompatible materials

- no incompatible materials known

#### 10.6 hazardous decomposition products

- not applicable as no hazardous properties

### 11. TOXICOLOGICAL INFORMATION

<b>11.1 Potential health effects</b>	the substance is not classified as hazardous
<b>11.2 Acute toxicity</b> oral, inhalation, dermal	no acute toxicity
<b>11.3 Irritation</b> Skin, eye irritation	not irritating
<b>11.4 Corrosivity</b>	not corrosive
<b>11.5 Sensitisation</b>	not sensitising
<b>11.6 Repeated dose toxicity</b>	no repeated toxicity
<b>11.7 Mutagenicity</b>	not mutagen
<b>11.8 Carcinogenicity</b>	no carcinogenetic effects are known
<b>11.9 Toxicity to reproduction</b>	no reproduction toxicity

For more detailed information to toxicological aspects Chemical Safety Report (CSR)

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## 12. ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	- the substance is not classified as hazardous - no aquatic toxicity - no toxicity in sewage treatment plants
<b>12.2 Persistence and degradability</b>	- not applicable: inorganic substance - neither photo- or chemical degradation, nor biodegradation is expected
<b>12.3 Bioaccumulative potential</b>	- not applicable: inorganic substance - significant bioaccumulation is not expected
<b>12.4 Mobility in soil</b>	- 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
<b>12.5 Results of PBT and vPvB assessment</b>	- no PBT and no vPvB properties
<b>12.6 Other adverse effects</b>	No other adverse effects are known According to the CLP system the substance has not to be labelled as dangerous for the environment.

For more detailed information see Chemical Safety Report (CSR)

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Ashes (residues), coal have to be disposed off 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



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#### 14. TRANSPORT INFORMATION

Not a dangerous good according to the regulations ADR, IMDG and IATA

#### 15. REGULATORY INFORMATION

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

ashes (residues), coal do not require any labelling

##### 15.2 Chemical safety assessment

Ashes (residues), coal do not require any labelling

##### 15.3 Water Pollution Class

not hazardous

#### 16. OTHER INFORMATION

The Information in this substance information sheet (SIS) 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 SIS, 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 SIS is not necessarily valid for the new made-up material.