

Substance Information Sheet (SIS) for JS_Ashes (residues), coal			
Trade Name	Date of Printing	Revised on	Page
boiler slag	13.07.2016	13.07.2016	1 / 9

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

1.1. Product identifier:

EC no 931-322-8	Ashes (residues), coal
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REACH registration no	01-2119491179-27-XXXX
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Synonyms	Boiler slag
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Trade names	ASILUX, ASILIKOS [®] , AFESIKOS [®] , ASILIT [®] , ASILROOF, ASILGRIP, Minogrit, Granustreu, steagran [®]
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1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Mineral raw material and construction material in cementitious (mortar, concrete) or ceramical (mineral wool) bound and unbound applications (e.g. road construction, structural fill, drainage, blasting grit)
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Use advised against:	not appropriate
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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).

Substance Information Sheet (SIS) for JS_Ashes (residues), coal			
Trade Name	Date of Printing	Revised on	Page
boiler slag	13.07.2016	13.07.2016	2 / 9

1.3. Details of the supplier of the safety data sheet

Producer/supplier:	STEAG Power Minerals GmbH		
Street/P.O. Box:	Duisburger Str. 170		
Nat. code/postcode, place:	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 – 608 241
		Email	martin.pielke@steag.com

1.4. Emergency telephone number

National:	24h	Emergency number:	112 (Germany)
	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

Substance Information Sheet (SIS) for JS_Ashes (residues), coal			
Trade Name	Date of Printing	Revised on	Page
boiler slag	13.07.2016	13.07.2016	3 / 9

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. SiO₂, Al₂O₃, Fe₂O₃, 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 (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

Substance Information Sheet (SIS) for JS_Ashes (residues), coal			
Trade Name	Date of Printing	Revised on	Page
boiler slag	13.07.2016	13.07.2016	4 / 9

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

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

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

Substance Information Sheet (SIS) for JS_Ashes (residues), coal			
Trade Name	Date of Printing	Revised on	Page
boiler slag	13.07.2016	13.07.2016	5 / 9

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

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 ³) should apply. These limits will be met during handling of the supplied granulations.
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8.2. Exposure controls

- appropriate engineering controls

– for closed cycles	care for dedusting installations
– for semi-closed and open cycles	care for dedusting installations care for sufficient ventilation or wetting the material

- individual protection measures

– Eye/ face protection	use of safety goggles is recommended if dust occurs
– Skin (hand) protection	Gloves if potential for contact is given;
– Respiratory protection	if dust occurs constantly – use respiratory dust mask

Substance Information Sheet (SIS) for JS_Ashes (residues), coal			
Trade Name	Date of Printing	Revised on	Page
boiler slag	13.07.2016	13.07.2016	6 / 9

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- Physical properties

Parameter	value/ comment	unit	method
Form	coarse ashes, normally < 11 mm	-	visual
Colour	black to brown	-	visual
Odour	none	-	-
Density	2,2 - 2,7	g/cm ³	EN 1097-6
Bulk density	1.0 - 1,6	g/cm ³	EN 1097-3

- Chemical properties

Parameter	value/ comment	unit	method
pH	< 10	-	(1:10; 20°C)
Water solubility (20°C)	< 0,1	g/l	-

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

Substance Information Sheet (SIS) for JS_Ashes (residues), coal			
Trade Name	Date of Printing	Revised on	Page
boiler slag	13.07.2016	13.07.2016	7 / 9

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

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

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

Substance Information Sheet (SIS) for JS_Ashes (residues), coal			
Trade Name	Date of Printing	Revised on	Page
boiler slag	13.07.2016	13.07.2016	8 / 9

12. ECOLOGICAL INFORMATION

12.1. Toxicity	<ul style="list-style-type: none"> – The substance is not classified as hazardous – no aquatic toxicity – no toxicity in sewage treatment plants
12.2. Persistence and degradability	<ul style="list-style-type: none"> – not applicable: inorganic substance – neither photo- or chemical degradation, nor biodegradation is expected
12.3. Bioaccumulative potential	<ul style="list-style-type: none"> – not applicable: inorganic substance – significant bioaccumulation is not expected
12.4. Mobility in soil	<ul style="list-style-type: none"> – Leaching of main compounds (SiO₂, Al₂O₃) is not expected
12.5. Results of PBT and vPvB assessment	<ul style="list-style-type: none"> – no PBT and vPvB properties
12.6. Other adverse effects	<ul style="list-style-type: none"> – 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.

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 01	bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
10 01 15	bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14

Substance Information Sheet (SIS) for JS_Ashes (residues), coal			
Trade Name	Date of Printing	Revised on	Page
boiler slag	13.07.2016	13.07.2016	9 / 9

14. TRANSPORT INFORMATION

– not a dangerous substance 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 (Annex 3 of VwVws)

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. Furthermore, the technical measures for occupational safety and health and the regulations of the employer's liability insurance association have to be observed.