

**Substance Information Sheet (SIS) for the mixture/ building material "Photoment<sup>®</sup>"**

Trade Name	Date of Printing	Revised on	Page
Photoment <sup>®</sup>	11.03.2015	10.07.2013	1 / 9

**1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING**
**1.1. Product identifier:**

Trade name	Photoment <sup>®</sup>
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Characterisation	concrete addition or filler, photocatalytically active
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Synonyms	---
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**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses	Mineral raw material for the use in hydraulic setting systems (non- standardised concrete) production of concrete goods and mortar admixtures
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Use advised against:	Use in concrete according to EN 206-1 and DIN 1045-2 not permitted
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**1.3. Details of the supplier of the safety data sheet**

Producer/supplier:	<b>STEAG Power Minerals GmbH</b>
Street/P.O. Box:	<b>Duisburger Str. 170</b>
Nat. code/postcode, place:	<b>D-46535 Dinslaken</b>
Phone:	<b>+49 (0) 2064 – 608 279</b>
Fax:	<b>+49 (0) 2064 – 608 330</b>
Responsible Person:	<b>Dipl.-Ing. Martin Pielke</b>
Phone:	<b>+49 (0) 2064 – 608 319</b>
Fax:	<b>+49 (0) 2064 – 608 242</b>
Email:	<b>martin.pielke@steag.com</b>

**Note:**

Photoment<sup>®</sup> 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).

**Substance Information Sheet (SIS) for the mixture/ building material "Photoment"**

Trade Name	Date of Printing	Revised on	Page
Photoment	11.03.2015	10.07.2013	2 / 9

**1.4. Emergency telephone number**

Supplier:	8:00 – 17:00	Tel:	+ 49 (0) 2064 – 608 319
		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 mixture is not classified as hazardous

**2.2. Label elements**

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

**2.3. Other hazards**

– Heavy formation of dust

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Substances**

Dangerous components:	not applicable
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Name:	Ashes (residues), coal	Titanium dioxide
EC no:	931-322-8	236-675-5
REACH registration nr:	01-2119491179-27-XXXX	01-2119489379-17-XXXX

**4. FIRST AID MEASURES****4.1. Description of first aid measures**

– Inhalation	Supply fresh air; consult doctor in case of symptoms.
– Ingestion	Rinse out mouth and drink plenty of water (in case of persistent symptoms consult doctor).
– Skin contact	Wash with water and soap and rinse thoroughly (if irritation persists contact doctor).
– Eye contact	Rinse opened eye for several minutes under running water (if irritation persists contact doctor).
Notes for the doctor	no allergic reactions known, mineral dust

## Substance Information Sheet (SIS) for the mixture/ building material "Photoment"

Trade Name	Date of Printing	Revised on	Page
Photoment	11.03.2015	10.07.2013	3 / 9

### 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 mixture 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

- Use protective measures that suit the hazard conditions.

## 6. ACCIDENTAL RELEASE MEASURES

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

- Keep people at distance and stay on the windward side.
- Avoid creating airborne dust wherever possible.

### 6.2. Environmental precautions

- Do not allow product to reach sewage system or water bodies.
- Do not allow to enter the ground/ soil.

### 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 the mixture/ building material "Photoment"

Trade Name	Date of Printing	Revised on	Page
Photoment	11.03.2015	10.07.2013	4 / 9

### 7. HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

- avoid creating airborne dust wherever possible
- ensure that suitable extractors are available on processing machines

#### 7.2. Conditions for safe storage, including any incompatibilities

- no special conditions for clustering
- no special requirements on the container material
- store under dry conditions
- observance of laws and regulations for the storage and use of water-endangering substances

#### 7.3. Specific end use(s)

- there are no further specific end uses than those named in section 1.2

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Control parameters

- The current occupational exposure limits for respirable dust in the European Union (3-10 mg/m<sup>3</sup>) should apply. These limits will be met during handling of the supplied granulations.

#### 8.2. Exposure controls

##### - appropriate engineering controls

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

##### - general protective and hygienic measures

- do not eat, drink or smoke while working
- avoid close or long term contact with the skin
- The product itself is not irritant but as with all fine powders can absorb moisture and natural oil from the surface of the skin during prolonged exposure. Prolonged exposure should be avoided by wearing suitable protective gloves and clothing.
- wash hands during breaks and at the end of the work

**Substance Information Sheet (SIS) for the mixture/ building material "Photoment"**

Trade Name	Date of Printing	Revised on	Page
Photoment	11.03.2015	10.07.2013	5 / 9

**- individual protection measures**

- Eye/ face protection	use of safety goggles is recommended if dust occurs
- Respiratory protection	If workplace exposure limits are exceeded, use respiratory protection according to national regulations. EN 149: respiratory dust mask FFP2
- Skin (hand) protection	Requirements according to EN 420: check protective gloves prior to each use for their proper condition. Preventive skin protection by use of skin-protecting agents is recommended.
- Body protection	Protective work clothing

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties****- Physical properties**

Parameter	value/ comment	unit	method
Form	fine grained powder	-	visual
Colour	fine grained powder	-	visual
Odour	odourless	-	-
Density	approx. 2.6	g/cm <sup>3</sup>	EN 1097-6
Bulk density	approx. 0.8	g/cm <sup>3</sup>	EN 1097-3

**- Chemical properties**

Parameter	value/ comment	unit	method
pH	6 – 9	-	(200 g/l; 20°C)
Water solubility (20°C)	approx. 1.0	g/l	(1:10)

Flash point	not applicable
Flammability (solid, gaseous)	not applicable
Self- flammability	not applicable
Danger of explosion	not applicable

**9.2. Other information**

- none
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**Substance Information Sheet (SIS) for the mixture/ building material "Photoment"**

Trade Name	Date of Printing	Revised on	Page
Photoment	11.03.2015	10.07.2013	6 / 9

**10. STABILITY AND REACTIVITY****10.1. Reactivity**

– The mixture reacts in intended way with hydraulic binders; a solid substance is produced, which do not reacts with the environment.

**10.2. Chemical stability**

– no decomposition if used according to specifications

**10.3. Possibility of hazardous reactions**

– no dangerous reactions known

**10.4. Conditions to avoid**

– no special requirements, see section 7

**10.5. Incompatible materials**

– no incompatible materials known

**10.6. Hazardous decomposition products**

– no dangerous decomposition products known

## Substance Information Sheet (SIS) for the mixture/ building material "Photoment"

Trade Name	Date of Printing	Revised on	Page
Photoment	11.03.2015	10.07.2013	7 / 9

### 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	ATE (MIX): oral > 2,000 mg/kg ATE (MIX): dermal > 2,000 mg/kg ATE (MIX): inhalation > 5.0 mg/l
<b>11.3. Irritation</b> skin, eye irritation	OECD 404 and OECD 405: no irritant effect; eye exposure (to dust) may produce irritation.
<b>11.4. Corrosivity</b>	not corrosive
<b>11.5. Sensitisation</b>	OECD 406 and OECD 429: 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
<b>11.10. Specific target organ toxicity</b>	no STOT according to the criteria defined in Regulation (EC) No. 1272/2008
<b>11.11. Aspiration hazard</b>	not relevant

### 12. ECOLOGICAL INFORMATION

<b>12.1. Toxicity</b>	<ul style="list-style-type: none"> <li>- The substance is not classified as hazardous</li> <li>- no aquatic toxicity</li> <li>- no toxicity in sewage treatment plants</li> </ul>
<b>12.2. Persistence and degradability</b>	- not applicable: inorganic substance
<b>12.3. Bioaccumulative potential</b>	- not applicable: inorganic substance
<b>12.4. Mobility in soil</b>	<ul style="list-style-type: none"> <li>- Moderately mobile in soil; adsorption to soil particles is possible</li> <li>- Leaching of main compounds (SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>) is not expected</li> </ul>
<b>12.5. Results of PBT and vPvB assessment</b>	- no PBT and vPvB properties
<b>12.6. Other adverse effects</b>	<ul style="list-style-type: none"> <li>- no other adverse effects are known</li> <li>- Due to the CLP system the substance has not to be labelled as dangerous for the environment.</li> </ul>

## Substance Information Sheet (SIS) for the mixture/ building material "Photoment"

Trade Name	Date of Printing	Revised on	Page
Photoment	11.03.2015	10.07.2013	8 / 9

### 13. DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Photoment has to be disposed off by national regulations for non hazardous wastes; no further special treatment methods are necessary.

Packaging can be reused or recycled after cleaning.

### 14. TRANSPORT INFORMATION

– not a dangerous substance according to the regulations ADR, IMDG and IATA

<b>14.1. UN – Number</b>	– not applicable
<b>14.2. UN proper shipping name</b>	– not applicable
<b>14.3. Transport hazard class(es)</b>	– not applicable
<b>14.4. Packing group</b>	– not applicable
<b>14.5. Environmental hazards</b>	– not applicable
<b>14.6. Special precautions for user</b>	– not applicable
<b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	– not relevant

### 15. REGULATORY INFORMATION

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

– Photoment do not require any labelling

#### 15.2. Chemical safety assessment

- Photoment is a mixture and therefore not subject to the Regulation (EC) No. 1907/2006 (REACH), see section 3.
- The product is not listed as SVHC, it does not contain any substances of very high concern
- A Chemical Safety Assessment has not been carried on

#### 15.3. Water Pollution Class

– Water hazard class 1: slightly hazardous for water (Annex 3 of VwVws)



**Substance Information Sheet (SIS) for the mixture/ building material "Photoment"**

Trade Name	Date of Printing	Revised on	Page
Photoment	11.03.2015	10.07.2013	9 / 9

**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.