

PRODUCT INFORMATION for safe handling



Glow in the dark light powder

Version 1

1. Product and Company Information

Product information

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| Trade name: | Glow in the dark light powder (HP-GLOW) products for industrial processing |
| Company: | HP-Textiles GmbH Otto-Hahn-Straße 22 48480 Schapen -Germany- |
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2. Possible dangers

These product information for safe handling has been prepared in compliance with the federal osha hazard communication standard 29 cfr 19.10.1200. This Product is considered to be a non-hazardous substance under that standard.

3. Composition / information on the ingredients

Characterisation: strontium aluminate europium doped
components: SrAl₂O₄: Eu+2,Dy+3

The Photoluminescent pigment is a sort of inorganic admixture; So, the pigment has not simplex CAS NO.

| Chemical Name | Composition Raw Material | CAS NO | weight Percent |
|----------------------------------|----------------------------------|------------|----------------|
| Dialuminium strontium tetraoxide | SrAl ₂ O ₄ | 12004-37-4 | >98% |
| Europium Oxide | Eu ₂ O ₃ | 1308-96-9 | <1.0% |
| Dysprosium Oxide | Dy ₂ O ₃ | 1308-87-8 | <1.0% |

4. First aid measures

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| After <u>inhalation:</u> | Remove to fresh air. |
| <u>eye contact:</u> | Flush with water for 5 minutes. |
| <u>skin contact:</u> | wash off with soap & water |
| <u>swallowing:</u> | Flush the mouth with water. |
| <u>ingestion:</u> | Drink quantities of water & induce vomiting |

5. Firefighting measures

Suitable extinguishing media: water/foam/ABC powder/carbon dioxide.

Extinguishing media that must not be used for safety reasons: none

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases: None

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Special protective equipment for firefighting: fire fighters should wear self-contained breathing apparatus when fighting chemical fires. Use water spray to cool nearby containers and structures exposed to fire. This product will not burn. Use appropriate techniques to fight surrounding fire.

Additional information: fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Accidental Release Measures

Personal precautions: use personal protective clothing. Avoid dust formation. Knock down dust with water spray jet.

Environmental precautions: wrap appropriate protective equipment, Avoid the generation of dust, Vacuum or shovel material and place in close able container(s) for disposal.

Methods for cleaning up: pick up mechanically. When picked up, treat material as prescribed under heading "Disposal".

Additional information: information regarding safe handling, see chapter 7. information regarding personal protective measures see, chapter 8. Information regarding. Waste disposal, see chapter 13.

7. Handling and storage

Observe the usual precautions for handling chemicals.

Hints on safe handling: air cleaning with filter of room for dust removable.

Hints for protection against fire and explosion: observe the general rules of industrial fire protection.

Requirements for storage rooms and vessels: store closed in cool dry area when handling wear protective clothing & respiratory protection. Avoid scatter into the air.

Storage stability: storage time: >60 months (airproof state).

8. Exposure limitation and personal protective equipment

Additional hints on technical system design: See chapter 7, no measures exceeding the ones mentioned are necessary.

Industrial hygiene: Do not eat or drink during work time. Do not smoke during work time.

Respiratory protection: local exhaust/mechanical (general).

Hand protection: plastic or neoprene

Eye protection: safety glasses

Skin protection: lab coat

9. Physical and Chemical Properties

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| Physical state: | solid powder |
| Colour: | Yellow Green |
| Odour: | none |
| Melting point: | 1900°C |
| Flash point/Ignition: | n.a. |
| pH-value: | 11~12 |

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Burning properties: n.a.
Density: app.3.4 g/cm³
Solubility in water: little soluble

10. Stability and reactivity

Thermal decomposition: none

Hazardous decomposition products: no hazardous decomposition products known

Hazardous reactions: the product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.

11. Toxicology information

Effects of overexposure: may cause irritation to eyes, skins & mucous membranes.

12. Environmental claims

Product is chemically and biological inert. As it does not contain soluble heavy metals, the product does not cause ecological or toxicological problems like other compounds containing heavy metals.

General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.

13. Disposal Instructions

Product: dispose in accordance with state and local regulations.

European waste catalogue: the declaration of the waste number must be specified by the branch or process in accordance with the EMC regulations.

Contaminated packagings: completely empty packaging may be treated as household waste.

Pigment can be one of additives and added into many medium, such as coat, paint, ink plastic, glass, ceramic etc. Pigment can repeatedly absorb energy and emit visible light for over 20 years without any perceivable change of its properties.

14. Transport details

No dangerous goods

15. Regulations

labelling in accordance with GefstoffV/EC: the product does not require a hazard warning label in accordance with EC directives/German regulations on dangerous substances.

TSCA: We certify that all components of this product are registered under the regulations of the toxic substances control act.

National requirements: VbF -class: -

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16. Other information

This information is based on our current knowledge and the information provided by our suppliers and describes the product only with regard to safety requirements. We assume that they are correct to the best of our knowledge and belief. They do not constitute a guarantee of characteristics and do not claim to be complete. They do not take into account all the circumstances in which the product may be used, nor all the physical and psychological characteristics of the persons responsible for transporting or processing the product.

According to Regulation (EC) No. 1907/2006 [REACH] Article 3(3), this product is classified as an article, therefore there is no obligation to register the ingredients or prepare a safety data sheet, as required by Article 31 of the REACH Regulation. This document was prepared voluntarily in accordance with Annex II of the Regulation under the aspect of "Responsible Care".

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| Company: HP-Textiles GmbH, D-48480 Schapen -Germany- | Date: 2025-02-13 (Version 1) | Department: Application Technology / QA LS / HJ |
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