

UNIQUE GLO

PO Box 404, Manteno, IL. 60950, Phone: (815)545-7650

E-mail: ebrooks2000@hotmail.com or r.allman@att.net

MATERIAL SAFETY DATA SHEET

Photoluminescent Pigment

PLW-W / White / Water Base.

01. FIRM AND PRODUCT IDENTIFICATION

Commercial product name: Photoluminescent pigment / PLS – W White

02. COMPOSITION/INFORMATION ABOUT COMPONENTS

Characterization: strontium calcium aluminate rare earth metal oxysulfide europium doped

Components: Sr₂Ca₂Al₁₁Y₁₁O₂₃ S₁₀: Eu⁺², Dy⁺², Nd⁺³, B⁺³, S¹O₂

03. IDENTIFICATION OF EVENTUAL HAZARDS

This material safety data sheet (MSDS) has been prepared in compliance with the federal OSHA hazard communication standard 29 CFR 1910.1200. this product is considered to be a non-hazardous substance under that standard..

04. EMERGENCY & FIRST AID

After **inhalation:** Remove to fresh air.

- **eye contact:** Flush with water for 5 minutes.

- **skin contact:** wash off with soap & water

- **swallowing :** Flush the mouth with water.

-**ingestion:** Drink quantities of water & induce vomiting

05. MEASURES IN CASE OF FIRE

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..

Special protective equipment for fire fighting: 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.

06. MEASURES AFTER SPILLAGE OR ACCIDENTAL LEAKAGE

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 material and place in close able container(s) for disposal.

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

Additional information: regarding safe handling, see chapter 6. information regarding personal protective measures see, chapter 8. Information regarding. Waste disposal, see chapter 14.

07. 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: >24 months.

08. CHECK OF INDIVIDUAL EXPOSITION / PROTECTION

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: none

Skin protection: lab coat

09. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA):

All ingredients in this product are listed on the US EPA TSCA Inventory of Chemical Substance

10. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: solid powder

Colour: milk-white

Odour: none

Melting point: 1000°C

Flash point Ignition: n. a.

pH-value: 7~8

Burning properties: n. a.

Density: app. 5.1 g/cm³

Solubility in water: insoluble

Solubility in organic solvents: insoluble

11. 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.

12. INFORMATION OF TOXICITY

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

13. INFORMATION ON ECOLOGICAL EFFECTS

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.

14. INFORMATION CONCERNING DISPOSAL

Product: dispose in accordance with state and local regulations.

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

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