

# UNIQUE GLO

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## MATERIAL SAFETY DATA SHEET

### Photoluminescent Pigment

#### PLG –W Series Water Base

#### 01. FIRM AND PRODUCT IDENTIFICATION

Commercial product name: Photoluminescent pigment / PLW Series / Water Base

#### 02. COMPOSITION/INFORMATION ABOUT COMPONENTS

Components: Sr<sub>2</sub>Ca<sub>2</sub>Al<sub>11</sub>Y<sub>11</sub>O<sub>23</sub> S<sub>10</sub>: Eu<sup>+2</sup>, Dy<sup>+2</sup>, Nd<sup>+3</sup>, B<sup>+3</sup> SiO<sub>2</sub>

#### 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. MEASURES OF 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 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.

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

#### 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 U.S. EPA TSCA INVENTORY OF CHEMICAL SUBSTANCES.

## 10. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	solid	powder
<b>Colour:</b>	White	
<b>Odour:</b>	None	
<b>Melting point:</b>	1900°C	
<b>Flash point/Ignition:</b>	N/A.	
<b>pH-value:</b>	11~12	
<b>Burning properties:</b>	N/A.	
<b>Density:</b>	app. 3.4 g/cm <sup>3</sup>	
<b>Solubility in water:</b>	insoluble	
<b>Solubility in organic solvents:</b>	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.

## 11. INFORMATION OF TOXICITY

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

## 12. 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.

## 13. INFORMATION CONCERNING DISPOSAL

**Product:** Dispose in accordance with state and local regulations.

**Contaminated packaging:** Completely empty packaging may be treated as household waste.

.PL Pigment can repeatedly absorb energy and emit visible light for over 20 years without any perceivable change of its properties.