

UNIQUE GLO

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MATERIAL SAFETY DATA SHEET

Photoluminescent Pigment

01. PRODUCT IDENTIFICATION

Commercial product name: photoluminescent pigment / PLG Series

02. COMPOSITION/INFORMATION ABOUT COMPONENTS

Characterization: strontium illuminate europium doped

Components: SrAl₂O₄:Eu⁺²,Dy⁺²,B⁺³

CAS: None

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 DATA

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 fire fighting 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: wear appropriate protective equipment, avoid the generation of dust, vacuum or shovel material and place in closable container(s) for disposal.

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

10. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	solid-powder
Colour:	light-yellow
Odour:	none
Melting point:	1900°C
Flash point/ignition:	n/a.
pH-value:	11~12
Burning properties:	n/a.
Density:	app. 3.4 g/cm ³
Solubility in water:	little-soluble
Solubility in organic solvents:	insoluble in alkalis' and organic solvents

11. STABILITY AND REACTIVITY

Hazardous decomposition: No hazardous decomposition product known.

Hazardous reactions: 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 an additive for many mediums, 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.