

Material Safety Data Sheet

Photoluminescent Pigment MSDS

MSDS Number: 22199 **Effective Date:** 2022-01-05

1. Product Identification

Synonyms: Strontium Aluminate Oxide

CAS No.: 12004-37-4

Chemical Formula: *SrAl₂O₄: Eu,Dy*

Size: 10-1000 um

REACH Registration Number: This product is exempted from registration according to regulation(EC) No 1907/2006 (REACH) and Regulation (EC) No. 1272/2008.

Relevant identified uses of this substance and uses advised against

Raw material used for luminous film, sheeting, ink, paint

Details of the supplier of the Safety Data Sheet

Manufacture: JINAN GREAT MATERIAL CO., LIMITED

44,WENHUAXI ROAD, JINAN, CHINA, 250022

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2. Composition/Information on Ingredients

Substance? Y/N * : if "Y" then substance name:

..... Strontium carbonate SrCO₃ 50-65%, Aluminium oxide Al₂O₃ 30-45%,

3 HAZARDS IDENTIFICATION

No requirement of a hazard warning label, follow the normal safety precautions for handling of Chemical

4 FIRST AID MEASURES

General information	Remove soiled or soaked clothing immediately
Inhalation	Remove the casualty into fresh air and keep him calm
Skin contact	Wash off immediately with soap and water
Eyes contact	Wash/rinse thoroughly with water

Ingestion After swallowing, drink several glasses of water. Ask the patient to vomit of his own accord only if fully conscious. Summon a doctor immediately.

5 FIRE FIGHTING MEASURES

Suitable extinguishing media: water mist, foam, carbon dioxide, dry powder, dry sand
 Special protective equipment for fire-fighting
 In case of combustion use a suitable breathing equipment.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation
	Avoid dust formation
Methods for cleaning up/taking up	Pick up mechanically
	Pick for disposal in tightly closed containers

7 HANDLING AND STORAGE

Handling	Advice on safe handling: Ensure adequate ventilation Advice on protection against fire and explosion: No special measures necessary
Storage	Advice on storage compatibility Do not store with acids
Further information on storage	Keep container tightly closed Keep container dry
Storage class	Spread of a fire

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

General protective measures	Do not inhale dust
Hygiene measures	Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.
Respiratory protection	Dust mask
Hand protection	rubber gloves
Eye protection	safety glasses
Body protection	protective clothing
Hygienic and work practice	keep away from food and drink. Wash hands before break

9 PHYSICAL AND SECURITY TECHNICAL DATA

Shape		Powder	
Color		Various	
Odor		NO	
Melting point		>1400°C	
Specific weight	at 20°C	Approx.3.6-3.8	g/cm ³
Ph	at 20°C	10-11	
Vapor pressure	at 20°C	---	Kpa
Density in relation to the air		---	
		insoluble	g/l

Solubility in water at 20°C
Flashpoint
Further information

--- °C
The product is sensitive to humidity

10 STABILITY AND REACTIVITY

Thermal decomposition
Hazardous reactions
Further information

No decomposition of used as prescribed.
Reactions with acids.
Humidity for a long time will reduce its afterglow brightness.

11 TOXICOLOGICAL DATA

Acute toxicity-oral
Acute toxicity-dermal
Acute toxicity-inhalation
Eye irritation
Skin sensation
Effects for man

LD50>10 g/kg
LD50>20 g/kg
-
no irritation
no irritation

no effect

12 ECOLOGICAL DATA

Further ecological information

Ecological data are not available

13 DISPOSAL CONSIDERATIONS

Product: In accordance with regulations for special waste, must be taken to a special waste disposal site.

14 TRANSPORT INFORMATION

Road transport

ADR

not restricted

RID

not restricted

Marine transport

IMDG/UN

not restricted

Air transport

ICAO/IATA-DGR

not restricted

Dispatch by post

permitted

15 REGULATORY

Labeling in accordance with Hazard warning labeling not compulsory

16. RADIOACTION AND HEAVY METAL

Free from radioactive additives

Test program

Bq/g

Total radiation of α

<0.035

Total radiation of β

<0.080

Free from heavy metal	
Cd	< 2.0 mg/kg
Chrome	<2.0 mg/kg
Lead	< 40 mg/kg
Hg	< 2.5 mg/kg
Se	<2.0 mg/kg

17 FURTHER INFORMATION

The information herein is given to the best of our current knowledge, but no warranty express or implied, is made in respect of the qualities.