

# MATERIAL SAFETY DATA SHEET

## (MSDS/SDS)

Page 1/9

---

**Applicant Name** : CNMI Industrial Corporation

**Applicant Address** : 8th Floor, No. 45 ZhongGuanCun Street Haidian District, Beijing  
100086 China

**Product Name** : Glow in dark pigment

**Redact Period** : 2021-1- 08 to 2021-1-12

**Regulatory Requirements** : Material Safety Data Sheet is prepared according to GB/T  
5838.1-2015, EU CLP Regulation (EC) No 1272/2008.

# Material Safety Data Sheet (MSDS/SDS)

DATE: 2021-1-12

Page2/9

## SECTION 1. Identification of the substance/preparation and company

- 1.1 Product Identification** : Glow in dark pigment
- 1.2 Molecular Formula** :  $\text{SrAl}_2\text{O}_4:\text{Eu}^{2+},\text{Dy}^{3+}$   
A variety of display applications, such as electroluminescent,
- 1.3 Recommended Use** : photoluminescent, plasma and field emission displays, LCDs, cathode ray tubes (CRTs), X-ray detectors, LEDs and many more.
- 1.4 Applicant Name** : CNMI Industrial Corporation
- 1.5 Applicant Address** : 8th Floor, No. 45 ZhongGuanCun Street Haidian District, Beijing  
100086 China
- 1.6 Manufacturer Name** : CNMI Industrial Corporation
- 1.7 Manufacturer Address** : 8th Floor, No. 45 ZhongGuanCun Street Haidian District, Beijing  
100086 China
- 1.8 Manufacturer Tel / Fax** : 0086-10-82462564
- 1.9 Manufacturer Email** : info@icnmie.com
- 1.10 Emergency Phone** : 86-18600592597

## SECTION 2. Hazards identifications

### 2.1 Hazard Classification of substance or mixture(GHS):

This material is not dangerous chemical according to GHS (Globally Harmonized System of Classification and labelling of chemicals) (sixth revised Edition)

### 2.2 Pictograms:

None

### 2.3 Signal word:

None

### 2.4 Hazard description:

None

# Material Safety Data Sheet (MSDS/SDS)

DATE: 2021-1-12

Page3/9

## 2.5 Precautionary description:

Not Considered to be an explosion hazard.

## SECTION 3. Composition / information on ingredients

Substance name	Conc. (%)	CAS.	EC.
Strontium Carbonate	55-60	1633-05-2	216-643-7
Alumina	36-42	1302-74-5	215-691-6
Dysprosium Oxide	1.5-2.5	1308-87-8	215-164-0
Europium Oxide	1.0-2.0	1308-96-9	215-165-6

## SECTION 4. First aid measures

General advice: Immediate medical attention is required. Show this safety data sheet (MSDS) to the doctor in attendance.

### 4.1 Following eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a physician if feeling uncomfortable.

### 4.2 Following skin contact:

Wash with water. Consult a physician if feeling uncomfortable.

### 4.3 Following inhalation:

Move victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a physician immediately.

### 4.4 Following ingestion:

If it is ingested, rinse the mouth with water.

Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

## SECTION 5. Firefighting measures

### 5.1 Special hazards arising from the substance or mixture:

Not considered to be a fire hazard. Not easily ignited by fire.

### 5.2 Hazardous Combustion Products

Not Applicable.

# Material Safety Data Sheet (MSDS/SDS)

DATE: 2021-1-12

Page4/9

## 5.3 Advice for firefighters:

Use any means suitable for extinguishing surrounding fire.

## 5.4 Hazardous combustion products:

No data available.

## SECTION 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

Avoid contact with eyes and skin.

Ensure adequate ventilation. Clear all fire sources.

Evacuate personnel to safe areas. Keep people away from upwind of spill/leak.

Wear appropriate protective measures (SEE SECTION 8).

### 6.2 Environmental precautions:

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

### 6.3 Cleaning method:

Remove by liquid absorbing material (e.g. kieselguhr) . Adhered or collected material should be promptly disposed of. Disposal of discarded waste/pollutants refers to SECTION 13.

## SECTION 7. Safe handling and storage

### 7.1 Handling Notes:

Keep away from fire and heat.

Avoid sun exposure.

Keep indoor ventilation or local exhaust device.

Handle lightly when handling to prevent damage to packaging and containers.

Equipped with corresponding varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

### 7.2 Storage Notes:

Keep away from fire and heat.

Store in a well-ventilated place. Keep cool.

The storage area should be equipped with leakage emergency treatment equipment and suitable containment materials.

Stored in compatible containers.

Keep storage containers sealed.

# Material Safety Data Sheet (MSDS/SDS)

DATE: 2021-1-12

Page5/9

Do not store with incompatible material (see section 10.2)

## SECTION 8. Exposure controls / personal protection

### 8.1 Occupational Exposure Limit:

Component	Limited Values
Aluminium Oxide Dust	4mg/m <sup>3</sup> (total) TWA (China)
	15mg/m <sup>3</sup> (total) TWA (OSHA)
	5mg/m <sup>3</sup> (resp) TWA (OSHA)
	10mg/m <sup>3</sup> (resp) TWA (OSHA)
Rare-Earth Dust (Free SiO <sub>2</sub> <10%)	2.5mg/m <sup>3</sup> (resp) TWA (China)

### 8.2 Engineering Control:

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Ensure that eyewash stations and safety showers are proximal to the work-station location.

### 8.3 Respiratory Protection:

Wear filter mask.

If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

### 8.4 Eyes Protection:

Wear protective goggle in working time.( Comply with the European Union EN 166 or The U.S. NIOSH standard.)If contacting with eyes, flush with plenty of water, If you have discomfort, seek medical advice

### 8.5 Hands Protection:

Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.Wash with plenty of water if gloves puncture or skin exposure.

### 8.6 Sanitary Measure:

Forbid smoking, eating and drinking in working places. Washing hands after handling products.

## SECTION 9. Physical and chemical properties

<b>Appearance and Color</b>	Light Yellowish Green Powder
-----------------------------	------------------------------

# Material Safety Data Sheet (MSDS/SDS)

DATE: 2021-1-12

Page6/9

<b>Odour</b>	Odorless
<b>PH value</b>	7-8 (Mixed with water 50g/L)
<b>Flammability</b>	Non flammable
<b>Flash point(°C,Closed cup)</b>	No Data
<b>Boiling point(°C)</b>	No data
<b>Freezing point (°C)</b>	<0°F(-18°C)
<b>Density(water =1)</b>	3.0
<b>Relative steam density (air = 1)</b>	No Data
<b>Vapor pressure</b>	No Data
<b>Octanol/water partition coefficient</b>	No Data
<b>Evaporation rate (kg/s)</b>	No Data
<b>UEL %(V/V)</b>	No Data
<b>LEL %(V/V)</b>	No Data
<b>Auto-ignition temperature(°C)</b>	No Data
<b>Decomposition temperature(°C)</b>	No Data
<b>Solubility</b>	Partly soluble in water
<b>Main Purpose</b>	Ceramic,Injection Molding Etc.

## SECTION 10. Stability and reactivity

### 10.1 Stability:

Stable under recommended storage and handling conditions (See section 7).

### 10.2 Material for avoiding:

Strong oxide, acid and alkali.

### 10.3 Contact conditions for avoiding:

Incompatibilities.

### 10.4 Hazardous decomposition products:

No data available.

## SECTION 11. Toxicological information

### 11.1 Acute toxicity:

No information found.

### 11.2 Skin corrosion/irritation:

No Information

# Material Safety Data Sheet (MSDS/SDS)

DATE: 2021-1-12

Page7/9

## 11.3 Serious eye damage/irritation:

No information

## 11.4 Respiratory or skin sensitisation:

No information

## 11.5 Germ cell mutagenicity:

No information found.

## 11.6 Carcinogenicity:

No information found.

## 11.7 Reproductive toxicity:

No information found.

## 11.8 STOT-single exposure:

No information found.

## 11.9 STOT-repeated exposure:

No information found.

## 11.10 Aspiration hazard.:

No information found.

## SECTION 12. Ecological information

### 12.1 Ecotoxicity:

No information

### 12.2 Persistence and degradability:

No data available.

### 12.3 Bioaccumulative potential:

No data available.

### 12.4 Mobility in soil:

No data available.

### 12.5 Other adverse effects:

No data available

## SECTION 13. Disposal considerations

### 13.1 Handling method for waste:

Handling waste according to the local regulations. Contact specific waste disposal company or

# Material Safety Data Sheet (MSDS/SDS)

DATE: 2021-1-12

Page8/9

companies recommended by local laws.

## 13.2 Handling method for uncleaned packaging:

According to official regulations.

## SECTION 14. Transport information

**IMDG,ICAO/IATA,ADR/RID 14.1 UN NO.:** Non-hazardous for transport

**IMDG,ICAO/IATA,ADR/RID 14.2 Class:** Non-hazardous for transport

**IMDG,ICAO/IATA,ADR/RID 14.3 Packaging group:** 55

**IMDG,ICAO/IATA,ADR/RID 14.4 Technical name:** Not classified

**IMDG,ICAO/IATA,ADR/RID 14.5 Label:** Non-hazardous for transport

**14.6 Attention Notes:** Not regulated under DOT, ADR, AND, IMDG, IATA

## SECTION 15. Regulatory information

This Safety Data Sheet (SDS) has been prepared in compliance with

EU CLP Regulation (EC) No 1272/2008. This product is NOT considered to be a hazardous Chemical under that standard.

Hazardous chemicals catalog No list

International maritime dangerous goods code No list

EU CLP Regulation (EC) No 1272/2008

In accordance with all local laws.

## SECTION 16. Other information

- This product does not toxic
- This product conforms to ASTM D4236
- This product conforms to EN71

### Disclaimer

The information in this Material Safety Data Sheet was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. This information is furnished upon condition that the person receiving it shall make his own



# Material Safety Data Sheet (MSDS/SDS)

DATE: 2021-1-12

Page9/9

determination of the suitability of the material for his particular purpose.

\*\*\*\*\*END\*\*\*\*\*