Safety Data Sheet

According to Hazard Communication Standard (29 CFR 1910.1200)

Photoluminescent Rubble

Version 1.0

Issue date: 11/05/2020

Revision date: 11/05/2020 **SDS record number: CSSS-TCO-010-142744**

1. Product and Company Identification

Material name Photoluminescent Rubble

CAS # See section 3

Product code -

Product use Not available

Manufacturer/Supplier

Supplier(Manufacturer): ZHEJIANG MINGHUI LUMINOUS TECHNOLOGY CO., LTD.

Address: NO.668, YINGBIN ROAD, SHANGHUA DISTRICT, LANXI CITY, ZHEJIANG PROVINCE, CHINA.

Contact person(E-mail): Mike Xu sales@mphotoluminescent.com

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2. Hazards identification

GHS classification

Physical hazards Not classified

Health hazards Not classified

Environmental hazards Hazardous to the aquatic environment, long-term hazard Category 2

GHS label elements

Hazard Pictograms



Signal word No signal word is used.

Hazard statement Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention Avoid release to the environment.

Response Collect spillage.

Storage Not applicable.

Disposal Dispose of contents/container in accordance with local regulation.

Other hazards Not available.

3. Composition / Information on Ingredients

Components	CAS#	Percent
Dysprosium and europium doped strontium dialuminium tetraoxide (monoclinic)	201426-52-0	35%
Unsaturated polyester resin	26123-45-5	65%

4. First Aid Measures

First aid procedures

Eye contact Wash with plenty of water. Seek medical attention.

Skin contact Wash off with soap and plenty of water. Consult a physician.

Inhalation	If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Notes to physician	Treat symptoms.

5. Fire Fighting Measure

Flammable properties	Not available.
Extinguishing media	
Suitable extinguishing media	Normal extinguishing agents may be used if the substance is involved in a fire.
Unsuitable extinguishing media	Not available.
Firefighting equipment/instructions	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous combustion products	Carbon oxides.

6. Accidental Release Measures

Personal precautions	Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
Environmental precautions	Do not let product enter drains.
Methods for cleaning up	Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. Handling and Storage

Handling	Avoid contact with skin and eyes. Avoid formation of dust. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Storage	Keep container tightly closed in a dry and well-ventilated place.

8. Exposure Controls / Personal Protection

Occupational exposure limits	This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Individual protection measures, such as personal protective equipment:

Eye / face protection	Safety glasses.
Skin protection	Handle with gloves. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
General hygiene considerations	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

9. Physical & Chemical Properties

Appearance	
Physical state	Solid
Form	Solid
Color	Yellowish green

Odor	Slight odor
Odor threshold	Not available
pH	Not available
Vapor pressure	Not available
Vapor density	Not available
Boiling point	Not available
Melting point/Freezing point	> 500 °C(CAS#201426-52-0)
Solubility (water)	300 mg/L@ 20°C(CAS#201426-52-0)
Relative density	3.63 @ 20°C(CAS#201426-52-0)
Flash point	Not available
Partition coefficient	< 0@ 20°C(CAS#201426-52-0)
Flammability limits in air, upper, %by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Auto-ignition temperature	Not available
VOC	Not available
Percent volatile	Not available
Molecular Formula	Not available
Molecular Weight	Not available
Other data	
Viscosity	Not available
Dissociation constant	Not available

10. Chemical Stability & Reactivity Information

Reactivity	The substance is stable under normal storage and handling conditions.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Incompatible materials. Heat. Hot surfaces. Flames.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.
Possibility of hazardous reactions	No hazardous reactions known.

11. Toxicological Information

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

Information on toxicological effects:

Acute toxicity:

Dysprosium and europium doped strontium dialuminium tetraoxide(monoclinic(CAS#201426-52-0)

LD50(Oral, Rat):	Not available
LD50(Dermal, Rat):	> 2 000 mg/kg bw
LC50(Inhalation, Rat):	Not available
Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified

Aspiration hazard: Not classified

12. Ecological Information

Toxicity:

Dysprosium and europium doped strontium dialuminium tetraoxide(monoclinic(CAS#201426-52-0)

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	6.8 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	13 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	29 mg/L	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Not available.

Bioaccumulative potential: Not available.

Mobility in soil: Not available.

Results of PBT&vPvB assessment: Not available.

Other adverse effects: Toxic to aquatic life with long lasting effects.

13. Disposal Considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT

Basic shipping requirements:

UN number Not regulated

Proper shipping name Not regulated

Hazard class Not regulated

Packing group Not regulated

Environmental hazards Yes

IATA

UN number Not regulated

UN proper shipping name Not regulated

Transport hazard class(es) Not regulated

Packing group Not regulated

Environmental hazards Yes

IMDG

UN number Not regulated

UN proper shipping name Not regulated

Transport hazard class(es) Not regulated

Packing group Not regulated

Environmental hazards Yes

15. Regulatory Information

US federal regulations

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical	No
SARA 313 (TRI reporting)	Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)	Not regulated.

16. Other Information

HMIS®ratings	Health: 0 Flammability: 1 Physical hazard: 0
NFPA ratings	Health: 0 Flammability: 1 Instability: 0
Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available.
Issue date	11-05-2020