

MATERIAL SAFETY DATA SHEET(MSDS)

Date:Apr.20,2021

Section 1 : Chemical product and company identification

Section 2: Composition/information on ingredients

Chemical Composition: SrAl₂O₄: Eu²⁺, Dy³⁺, K₂SiO₃(For water-resistant layer)

Chemical name: Strontium aluminates

Ingredient	CAS No.	Content (%)
Aluminum Oxide	1344-28-1	20~50
Calcium Carbonate	471-34-1	0~20
Strontium Carbonate	1633-05-2	30~60
Boric Acid	10043-35-3	1~6
Didysprosium trioxide	1308-87-8	0~1
Dieuropium trioxide	1308-96-9	0.02~1

Section 3: Hazards summarizing Identifications 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.

Section 4: Measures of First AID first-aid measures

Inhalation: Remove to fresh air. Inhale: Transfer to fresh air.

Eye contact: Flush with water for 5 minutes. Eye contact: flush with water for 5 minutes.

Skin contact: wash off with soap & water. Skin contact: wash with soap and water.

Swallowing : Flush the mouth with water.

Ingestion: Drink quantities of water & induce vomiting Ingestion: drink water, the number of emetic

Section 5: Measures in case of Fire fire-fighting measures

Suitable extinguishing media: water/foam/ABC powder/carbon dioxide. Suitable extinguishing

Media: water / foam / powder / carbon dioxide

Extinguishing media that must not be used for safety reasons: none Extinguishing media for safety reasons, must not be used: No

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases: None. Special exposure hazards of the substance or preparation itself, its combustion products or gases produced due to: no.

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.

Section 6: Measures after Spillage or Accidental Leakage accidental release measures

Personal precautions: Use personal protective clothing. 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 material and place in closeable 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 8. information regarding. Waste disposal, see chapter 13.

Section 7: 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.

Section 8: 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

Section 9: Physical and Chemical Properties

Physical state: solid powder

Color: Light-yellow or milk-white

Odor: none.

Melting point: 1900

Flash point/Ignition: na

PH-value: 11~12

Burning properties: na

Density: app. 3.6 g/cm³ 3.6 G/CM³

Solubility in water: little soluble

Solubility in organic solvents: insoluble

Section 10: 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.

Section 11: Information of Toxicity

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

Section 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.

Section 13: Information Concerning Disposal

Product: dispose in accordance with state and local regulations.

European waste catalogue: the declaration of the waste number must be specified by the branch or process in accordance with the EMC regulations.

Contaminated packaging: completely empty packaging may be treated as household waste.

PL Pigment can be one of additives and added into many medium, 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.

Environmental precautions: packaging the appropriate protective equipment, avoid dust, vacuum or shovel material to close the container and materials handling areas.

Section 14: Information Concerning Transport

GGVSee / IMDG Code: - UN NR: - ICAO / International Air Transport Association (IATA)

GGVE / GGVS: unsorted ADE / RID: Not classified ADNR

Section 15: Information Concerning Regulations

Labelling in accordance with GefStoffV/EC: the product does not require a hazard warning label in accordance with EC directives/German regulations on dangerous substances.

National requirements: VbF-class:

Section 16: Other Information

Observe national and local legal requirements