

MATERIAL SAFETY DATA SHEET
Photoluminescent pigments

Date of issue: 11.05.2016
Version: V.1.0

1. Substance / Product identification:

Product identification: AS-40/A, AS-40/B, AS-40/C

Product type: Photoluminescent pigment, strontium aluminate (SrAl)

Recommended use: For printing, painting, plastic, glass and ceramic industry.

Contact details of the supplier of the safety data sheet:

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2. Hazards identification

This material safety data sheet (msds) has been prepared in compliance with the federal OSHA hazard. No hazardous components as defined by 29 CFR 1910.1000 – 1200.

3. Composition/Information on ingredients

Chemical characterization: strontium aluminate europium dysprosium doped

Chemical formula: SrAl₂O₄:Eu.Dy

Composition	Content %	CAS no.
SrAl ₂ O ₄	97,5	12004-37-4
Eu	1	7440-53-1
Dy	1,5	7429-91-6

4. First Aid Measures

Inhalation

Move affected person to fresh air. Keep at rest until recovered. Work in a well ventilated place. If breathing is irregular administer oxygen. Seek medical attention.

Eye contact

Flush the eyes continuously with running water for several minutes. Do not rub eyes. Keep the eyelids open. If irritation occurs and persists get medical attention immediately.

Skin contact

Wash skin thoroughly with soap and water or use recognised skin cleanser. If symptoms develop seek medical attention.

Ingestion

If affected person is conscious wash out mouth with plenty of water . If symptoms persist seek medical attention.

Note to physician

Treat symptomatically and supportively.

5. Firefighting Measures

Flammable properties

Not combustible.

Extinguishing Media

Carbon dioxide, water spray, dry chemical or foam.

Special Fire Fighting Procedures

Fire fighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored. Fight fire from safe location.

Special hazards

None known

6. Accidental Release Measures

Personal precautions

Use personal protective clothing .Avoid dust formation .Knock down dust with water spray jet.

Environmental precautions

Wrap appropriate protective equipment, avoid the generation of dust, vacuum or shovel material and place in closable 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.

Regulatory Requirements

Follow applicable international or local regulations.

7. Handling and storage

Handling

When handling wear protective clothing & respiratory protection. Avoid scatter into the air.

Avoid breathing vapours or fumes. Take appropriate precautions against inhalation of dust particles. Ensure good ventilation or exhaustion at the workplace. When using do not eat, drink, smoke or sniff. Use protective glasses and disposable gloves to avoid personal contact. Wash your hands thoroughly after handling.

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Store in original, labelled and tightly closed container in a cool and well-ventilated place. Do not store near food or feed.

8. Exposure Controls / Personal Protection**Eye and face protection**

Safety glasses with side shields or chemical goggles should be worn.

Body protection

Suitable protective workwear is recommended.

Hand protection

Wear plastic or rubber gloves.

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values. Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used.

General health and safety measures

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Wash hands before breaks and after work. Immediately remove any contaminated clothing, shoes or stockings.

9. Physical and Chemical Properties

General Information	
<i>Odor</i>	None
<i>Colour</i>	Light yellow
<i>Appearance</i>	Powder
<i>Density</i>	3,6 g/cm ³ – DIN 51757 (20°C)
<i>Melting point / Melting range</i>	>1000°C
<i>Ignitions temperature</i>	Not available
<i>Lower explosion limit</i>	Not available
<i>Vapour pressure</i>	Not available
<i>Flammability</i>	Not flammable
<i>Solubility in Water</i>	insoluble

10. Stability and Reactivity**Reactivity**

The product is stable under dry conditions.

Conditions to avoid

Avoid acids.

Hazardous Decomposition Products

No hazardous decomposition product know.

11. Toxicological Information

Toxicology information

No data available for this material.

Inhalation

May cause sensitisation by inhalation. May cause asthmatic symptoms in hypersensitive persons.

Eye contact

May cause irritation to eyes. May produce as allergic reaction, redness, itching or tearing.

Skin contact

May produce an allergic skin reaction.

Ingestion

May cause irritation to the mouth, throat and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.

Sensitisation

May develop skin sensitisation from prolonged and/or repeated contact.

12. Ecological Information

Product is insoluble in water.

Ecotoxicity

There are no data available for this material.

Persistence and Degradability

No data available.

Mobility

No data available.

Bio accumulative potential

No data available.

13. Disposal Considerations

Waste disposal

Disposal should be in accordance with local and National regulations via a licensed waste contractor.

Do not discharge into sewage system or other bodies of water.

14. Transport Information

GGVE/GGVS : not classified ADR/RID : not classified ADNR : -
NOT RESTRICTED as per IATA DGR 58th Edition.

Not classified as dangerous goods for the transport by road, air and sea.

15. Regulatory Information

Labelling in accordance with GefStoffV/EC.

The product does not require a hazard warning label in accordance with EC directives.

Safety, health and environmental regulations/legislation specific for the substance or mixture.

EU legislation.

16. Other Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.