

SAFETY DATA SHEET FOR CHEMICAL PRODUCTS

1. Chemical product and company identification

Product name Green Silicate Phosphors

Product code PM1895

Manufacturer/Supplier

Address

Stanford Advanced Materials 23661 Birtcher Dr. Lake Forest,

CA 92630 USA

Tel: +1 (949) 407-8904

Recommended use and Limitations on use

Recommended use Solid State Lighting Applications.

2. Hazards identification

GHS-classification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A Skin sensitizer Category 1

Specific target organ toxicity - single

exposure

Environmental hazards Not classified.

GHS-labeling

(!)

Symbols

Signal word Warning

Hazard statement Causes serious eye irritation. May cause respiratory irritation. Causes skin irritation. May cause

an allergic skin reaction.

Precautionary statement

Prevention Avoid breathing dust. Use only outdoors or in a well-ventilated area. Contaminated work clothing

should not be allowed out of the workplace. Wash hands thoroughly after handling. Wear

Category 3 respiratory tract irritation

eye/face protection.

Response IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye

irritation persists: Get medical advice/attention.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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

3. Composition/information on ingredients

Substance/mixture Substance

Silicate Phosphor - 100

4. First aid measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Oxygen or artificial respiration if needed. Call a physician if symptoms develop or persist.

Skin contact For skin contact flush with large amounts of water while removing contaminated clothing. If skin

rash or an allergic skin reaction develops, get medical attention.

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Eye contact In case of contact, immediately flush eyes with fresh water for at least 15 minutes while holding

the eyelids open. Remove contact lenses if worn. Get medical attention if irritation persists.

Ingestion If material is ingested, immediately contact a poison control center.

Expected acute symptoms and

delayed symptoms

May cause an allergic skin reaction.

Personal protection for first-aid

responders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

Notes to physician Provide general supportive measures and treat symptomatically.

5. Fire-fighting measures

Extinguishing media Extinguish with water spray, carbon dioxide, dry chemical or material appropriate for the

surrounding fire.

Extinguishing media to avoid

None known.

Specific hazards

Material may form irritating and toxic gaseous oxides at high temperatures.

Special fire fighting

procedures

Use standard firefighting procedures and consider the hazards of other involved materials.

Protection of fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions Avoid dust formation. Wear appropriate personal protective equipment.

Environmental precautions Do not allow to enter drains, sewers or watercourses.

Clean-up methods and materials and containment Sweep up or vacuum up spillage and collect in suitable container for disposal. Dispose of waste

and residues in accordance with local authority requirements.

Prevention of secondary

hazards

measures

Avoid release to the environment.

7. Handling and storage

Handling

Technical measures No specific recommendations.

Local and general

ventilation

Provide appropriate exhaust ventilation at places where dust is formed.

Precautions

Use work methods which minimize dust production.

Safe handling advice Avoid contact with skin and eyes. Wear suitable protective clothing and gloves. Wash thoroughly

after handling. Observe good industrial hygiene practices.

Storage

Technical measures Guard against dust accumulation of this material.

Suitable storage conditions

Store in a closed container away from incompatible materials.

Incompatible materials Strong oxidizers, strong acids, and strong bases.

Safe packaging materials Keep in original container.

8. Exposure controls/personal protection

Exposure limits

No exposure limits noted for ingredient(s). Occupational exposure limits

Engineering measures Use local exhaust ventilation. Facilities storing or utilizing this material should be equipped with an

eyewash facility and a safety shower. Use work methods which minimize dust production.

Personal protective equipment

Respiratory protection Wear respirator if there is dust formation. In case of inadequate ventilation or risk of inhalation of

dust, use suitable respiratory equipment with particle filter.

Hand protection Wear appropriate chemical resistant gloves. Eye protection Wear approved safety glasses or goggles.

Skin and body protection Wear lab coat or other protective garments. Remove contaminated clothing promptly.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

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9. Physical and chemical properties

Appearance

Physical state Solid. Powder. **Form** Color Green.

Odor Not available. Not available. pН Not available. Melting point/freezing point Not available. Boiling point, initial boiling

point, and boiling range Not available. Flash point **Auto-ignition temperature** Not available. Flammability limit - lower (%) Not available. Flammability limit - upper (%) Not available. Not available. **Explosive limit** Not available. Vapor pressure Not available. Vapor density Not available. Relative density

Partition coefficient (n-octanol/water)

Density

Solubility

Soluble in water. Not available.

Not available.

Decomposition temperature Not available. **Bulk density** 4.73 kg/m3

10. Stability and reactivity

Stability Material is stable under normal conditions.

Possibility of hazardous

reactions

Polymerization will not occur.

Conditions to avoid Dust generation. Heat, flames and sparks. Incompatible materials Strong oxidizers, strong acids, and strong bases.

Hazardous decomposition

products

Thermal decomposition can lead to release of irritating gases and vapors. Metal oxides.

11. Toxicological information

May cause discomfort if swallowed. Acute toxicity

Routes of exposure Eyes. Skin. Inhalation.

Symptoms Ingestion may cause irritation and malaise. May cause an allergic skin reaction.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

No data available. Respiratory sensitizer

Skin sensitizer May cause an allergic skin reaction.

Germ cell mutagenicity No data available.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

No data available. Toxic to reproduction

Specific target organ toxicity following single

exposure

May cause respiratory irritation.

Specific target organ

toxicity following repeated

exposure

No data available.

Not classified. **Aspiration toxicity**

Repeated inhalation may result in respiratory sensitization. **Chronic effects** Other information No other specific acute or chronic health impact noted.

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12. Ecological information

Ecotoxicological data

Product Test Results

Green Silicate Phosphors LC50 Pimephales promelas: 6285 mg/l 96 hours

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data available.

BioaccumulationNo data available.Mobility in soilNo data available.Other hazardous effectsNo data available.

13. Disposal considerations

Residual waste Dispose in accordance with all applicable regulations.

Contaminated packaging Local disposal regulations Empty containers should be taken to an approved waste handling site for recycling or disposal.

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not discharge into drains, water courses or onto the ground.

14. Transport information

CNDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

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This safety data sheet was prepared in accordance with GB/T 16483-2008: Safety Data Sheet for Chemical Products - Content and Order of Sections.

16. Other information

Applicable regulations

References Not available.

Issued by

Company name Stanford Advanced Materials

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