

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



56500 Phosphorescent Pigment Green

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Revised edition: 06.12.2019

Version: 9

Printed: 09.05.2022

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Phosphorescent Pigment Green

Article No.: 56500

UFI: --

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

*Mapping of thermoplastics (industrial use)
Use of coatings, paints and inks (industrial, professional and consumer use).
Calendering / extrusion, industrial spraying, Masterbatch additive (industrial use)*

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

E-Mail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

This product does not require classification and labelling as hazardous according to CLP/GHS.

Possible Environmental Effects:

See Section 12.

2.2. Label Elements

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

This product does not require classification and labelling as hazardous according to CLP/GHS.

Hazard designation:

Not applicable.

Signal word:

Hazard designation:

Safety designation:

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Hazardous components for labelling:

2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization:

Information on Components / Hazardous Ingredients:

Zinc sulfide (ZnS), Copper chloride-doped; REACH Reg. No. 01-2119978290-33-0000	100 %	CAS-Nr: 68611-70-1 EINECS-Nr: 271-904-2 EC-Nr:
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Remove contaminated clothes immediately.

After inhalation:

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

Give artificial respiration in case breathing is not regular or if it has stopped.

In case of complaints consult a physician.

After skin contact:

Wash off with plenty of water and soap. Consult a physician if irritation persists.

Do not use solvents or thinners.

After eye contact:

Remove contact lens. Rinse open eyes with plenty of water (10-15 min). Consult physician.

After ingestion:

Do not induce vomiting.

Never give anything by mouth to an unconscious person.

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

No acute or delayed symptoms or effects have been observed.

Effects:

No further information available.

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Never give anything by mouth to an unconscious person.

5. Fire-Fighting Measures

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5. 1. Extinguishing Media

Suitable extinguishing media:

Use extinguishing media for surrounding fire.

Unsuitable extinguishing media:

Water with full jet.

5. 2. Special Hazards arising from the Substance or Mixture

Special hazards:

Product is not flammable.

When heated or in case of fire: formation of hazard fumes.

In case of fire: formation of sulfuric acids and hydrogen sulfide.

5. 3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Further information:

Contaminated extinguishing water and debris should be disposed of according to local regulations.

Cool exposed containers with water spray.

6. Accidental Release Measures

6. 1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Avoid inhalation of dust.

Ensure adequate ventilation.

6. 2. Environmental Precautions

Environmental precautions:

Prevent contamination of soil, drains and surface waters.

6. 3. Methods and Material for Containment and Cleaning Up

Methods and material:

Take up mechanically and collect in suitable containers for disposal. Avoid dust formation.

6. 4. Reference to other Sections

Protective clothing, see Section 8.

See Section 13 for information on disposal.

7. Handling and Storage

7. 1. Precautions for Safe Handling

Instructions on safe handling:

Avoid contact with eyes, skin and clothing.

Avoid formation of dust.

Hygienic measures:

Do not eat or drink during work. Do not smoke.

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

7. 2. Conditions for Safe Storage, including any Incompatibilities

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Storage conditions:

Store in tightly sealed containers in a cool and well ventilated location.

Do not store together with food stuff and animal feed.

Requirements for storage areas and containers:

Store the product in the original container.

Information on fire and explosion protection:

Keep away from sources of heat and ignition - do not smoke.

Storage class:

Further Information:

Storage temperature: 5 - 35°C

7.3. Specific End Use(s)

Further information:

No further information available.

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

none known

Parameters to be controlled:

Derived No-Effect Level (DNEL):

5 mg/m³ (worker, inhalation, long-term exposure - systemic effects)

0.83 mg/kg bw/day (consumer, swallowing, long-term exposure - systemic effects)

83 mg/kg bw/d (Consumer, skin kontakt, long-term exposure - systemic effects)

2.5 mg/kg (consumer, inhalation, long-term exposure - systemic effects)

Predicted No-Effect Concentration (PNEC):

Fresh water: 20.6 µg/l

Fresh water sediment: 117.8 mg/kg

Seawater: 6.1 µg/l

Seawater sediment: 56.5 mg/kg

Soil: 35.6 mg/kg

Sewage treatment system (STP): 52 µg/l

Additional Information:

Biological limits: no limit values available for the ingredients of this product.

8.2. Exposure Controls

Technical protective measures:

Adequate ventilation.

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Personal Protection

General protective measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Do not inhale dust. Do not eat, drink or smoke while working. Wash hands before breaks and at the end of work.

Respiratory protection:

Dust mask recommended when very dusty: with particle filter P2.

Hand protection:

Protective gloves. The glove material has to be impermeable and resistant to the product / substance / preparation.

Protective glove material:

Polyvinyl chloride (> 480 min, 0.35 mm)

Eye protection:

Safety glasses with protective shields (EN 166).

Body protection:

Protective clothing.

Safety shoes (EN-ISO 13287, EN 20347)

Environmental precautions:

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>powder</i>
<i>Color:</i>	<i>yellowish-green</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>no information available</i>
<i>pH-Value:</i>	<i>not applicable</i>
<i>Melting temperature:</i>	<i>> 401.5°C</i>
<i>Boiling temperature:</i>	<i>not applicable</i>
<i>Flash point:</i>	<i>not flammable</i>
<i>Evaporation rate:</i>	<i>not applicable</i>
<i>Flammability (solid, gas):</i>	<i>not flammable</i>
<i>Upper explosion limit:</i>	<i>not determined</i>
<i>Lower explosion limit:</i>	<i>not determined</i>

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Vapor pressure:

not applicable

Vapor density:

No information available.

Density:

1.78 g/cm³ (20°C)

Solubility in water:

1002.e-3 g/l (zinc compound)

Coefficient of variation (n-Octanol/Water):

not determined

Auto-ignition temperature:

> 400°C

Decomposition temperature:

No data available.

Viscosity, dynamic:

not applicable

Explosive properties:

Product does not present an explosion hazard.

Oxidizing properties:

no information available

Bulk density:

not determined

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

No further information.

10. Stability and Reactivity

10.1. Reactivity

Stable if used according to specifications.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

Reacts with acids: development of hydrogen sulfide.

10.4. Conditions to Avoid

Conditions to avoid:

Avoid temperatures above 800°C.

Thermal decomposition:

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Avoid heat.

10.5. Incompatible Materials

Keep away from acids.

10.6. Hazardous Decomposition Products

*Sulphur oxides (SO_x).
Hydrogen sulfide gas.*

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

Repeated or prolonged contact with the product may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Zinc Sulfid (ZnS), Copper chloride-doped (68611-70-1):

LD50, oral:

> 2000 mg/kg (rat)

LD50, dermal:

> 2000 mg/kg (rat)

LC50, inhalation:

5.41 mg/m³ (rat)

Primary effects

Irritant effect on skin:

Non irritating

Irritant effect on eyes:

Non-irritating to eyes

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No sensitizing effects known.

Mutagenicity:

Not mutagenic.

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

No relevant data found.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

No relevant data found.

Additional toxicological information:

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No information available.

12. Ecological Information

12.1. Aquatic Toxicity

No information available.

Fish toxicity:

Daphnia toxicity:

Bacteria toxicity:

Algae toxicity:

12.2. Persistency and Degradability

No information available.

12.3. Bioaccumulation

No information available.

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

Not applicable.

12.6. Other Adverse Effects

Water hazard class:

Do not let product contaminate ground water, waterways or sewage system.

Behaviour in sewage systems:

Further ecological effects:

No ecological data available.

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

Dispose of according to official national and local regulations.

European Waste Code (EWC):

060314 - Solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13.

Uncleaned packaging:

Non-contaminated packaging may be recycled.

Contaminated packaging must be disposed like the substance.

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA

14.2. UN Proper Shipping Name

ADR/RID:

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No hazardous goods according to ADR / DOT (US) (land transportation).

IMDG/IATA:

Not hazardous goods

14.3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14.4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14.5. Environmental Hazards

no

14.6. Special Precautions for User

Not classified as a dangerous good under transport regulations.

14.7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

not applicable

14.8. Further Information

15. Regulatory Information

15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

2, hazardous for water (German Regulation)

Local regulations on chemical accidents:

Seveso III Directive: not applicable under Directive 2012/18/EC.

Employment restrictions:

Restriction and prohibition of application:

Not applicable.

Technical instructions on air quality:

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15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

15.3. Further Information

Regulation (EC) 1005/2009 - Substances that Deplete the Ozone Layer: not regulated / not applicable

Regulation (EC) 649/2012 concerning the export and import of dangerous chemicals: Not applicable

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.