

Safety Data Sheet

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



56847 Thermochrome Pigment Green

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Revised edition: 20.02.2017

Version: 1

Printed: 11.09.2017

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

1.1. Product Identifier

Product Name: Thermochrome Pigment Green

Article No.: 56847

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

Identified uses:
Industrial application

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.de

E-Mail: info@kremer-pigmente.de

Importer: --

1.4. Emergency No.

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

2. Hazards Identification

2.1. Classification of the Substance or Mixture

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

H315 Skin irritation, hazard category 2
Cat.: 2
H317 Skin sensitization, hazard category 1
Cat.: 1
Causes skin irritation.
May cause an allergic skin reaction.

Classification according to Directive No. 67/548/EC or No. 1999/45/EC

Safety Phrases:

Possible Environmental Effects:

2.2. Label Elements

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

Hazard designation:



GHS07-1

Signal word:

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Warning

Hazard designation:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

Safety designation:

P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P302+P352	If on skin: Wash with soap and water.
P362	Take off contaminated clothing and wash before reuse.

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:

Polyoxymethylene melamine (H315-317)	35 - 53 %	CAS-Nr: 9003-08-01 EINECS-Nr: 618-343-5 EC-Nr:
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Immediately get medical help.

After inhalation:

Supply fresh air. Consult physician if symptoms persist.

After skin contact:

Remove contaminated clothing immediately. Wash off immediately with plenty of water and soap.

If irritation continues consult a physician.

After eye contact:

Remove contact lens. Rinse open eyes with plenty of water (10-15 min). Should irritation continue, seek medical advice.

After ingestion:

Immediately get medical help.

Never give anything by mouth to an unconscious person.

Do not induce vomiting without medical advice.

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

Symptoms:

No further information available.

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Effects:

4. 3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

No information available.

5. Fire-Fighting Measures

5. 1. Extinguishing Media

Suitable extinguishing media:

Foam, carbon dioxide (CO₂), extinguishing powder, water mist.

Unsuitable extinguishing media:

None known.

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

Special hazards:

*Combustible material.
May cause explosive gas-air-mixtures.*

5. 3. Advice for Firefighters

Protective equipment:

Wear suitable protective clothing.

Further information:

*Cool exposed containers with water spray.
Avoid contamination of sewage system, open water ways and ground water.*

6. Accidental Release Measures

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

Personal precautions:

*Avoid formation of dust, wear protective clothing.
Avoid contact with skin, eyes and clothing.*

6. 2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

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

Methods and material:

Clean up mechanically. Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

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.

Hygienic measures:

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Change contaminated clothing. Wash hands after work.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Protect product from direct sunlight.

Store in tightly sealed containers in a well ventilated location.

Requirements for storage areas and containers:

Store the product in the original container.

Information on fire and explosion protection:

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

Storage class (VCI):

Further Information:

7.3. Specific End Use(s)

Further information:

No 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):

Predicted No-Effect Concentration (PNEC):

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Technical protective measures have priority to personal protective measures.

Facilities storing or utilizing this material should be equipped with an eyewash and shower facility.

Personal Protection

General protective measures:

Remove contaminated clothing immediately.

Wash contaminated clothes before reuse.

Respiratory protection:

Required in case of insufficient ventilation.

Recommended: Particle filter P1-P3

Hand protection:

Protective gloves (EN 374)

Protective glove material:

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Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.

Eye protection:

Safety glasses (EN 166)

Body protection:

Protective suit with long sleeves.

Environmental precautions:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: powder

Color: green

Odor: odorless

Odor threshold:
No information available.

pH-Value:
not available

Melting temperature:
not available

Boiling temperature:
not available

Flash point:
not available

Evaporation rate:
No information available.

Flammability (solid, gas):
not available

Upper explosion limit:
no information available

Lower explosion limit:
no information available

Vapor pressure:
not applicable

Vapor density:
No information available.

Density: 0.9 - 1.2 g/cm³

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<i>Solubility in water:</i>	<i>insoluble</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>no information available</i>
<i>Auto-ignition temperature:</i>	<i>No information available.</i>
<i>Decomposition temperature:</i>	<i>No data available.</i>
<i>Viscosity, dynamic:</i>	<i>not applicable</i>
<i>Explosive properties:</i>	<i>not available</i>
<i>Oxidizing properties:</i>	<i>No information available.</i>
<i>Bulk density:</i>	<i>not determined</i>

9.2. Further Information

Solubility in solvents:
Viscosity, kinematic
Burning class:
Solvent content:
Solid content:
Particle size:
Other information:

10. Stability and Reactivity

10.1. Reactivity	<i>Stable if used according to specifications.</i>
10.2. Chemical Stability	<i>Stable if used according to specifications.</i>
10.3. Possibility of Hazardous Reactions	<i>Risk of dust explosion.</i>
10.4. Conditions to Avoid	
<i>Conditions to avoid:</i>	<i>Avoid formation of dust.</i>
<i>Thermal decomposition:</i>	
10.5. Incompatible Materials	<i>None known.</i>
10.6. Hazardous Decomposition Products	<i>No information available.</i>

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10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral:

Methyl stearate: > 2000 mg/kg

LD50, dermal:

No information available.

LC50, inhalation:

Methyl stearate: >5 mg/kg (4h)

Primary effects

Irritant effect on skin:

Irritating to skin.

Irritant effect on eyes:

No information available.

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

May cause sensitization by skin contact.

Mutagenicity:

Not mutagenic.

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

No relevant data found.

Teratogenicity:

No relevant data found.

Specific target organ toxicity (STOT):

No relevant data found.

Additional toxicological information:

Aspiration hazard: not applicable

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

Methyl stearate: 36 mg/l (48h, crustaceans)

Daphnia toxicity:

Bacteria toxicity:

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Algae toxicity:

12. 2. Persistency and Degradability

Methyl stearate: readily biodegradable

12. 3. Bioaccumulation

No information available.

12. 4. Mobility

No information available.

12. 5. Results of PBT- und vPvP Assessment

On the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1 %.

12. 6. Other Adverse Effects

Water hazard class:

1, slightly hazardous (German Regulation; Self-assessment).

Behaviour in sewage systems:

Further ecological effects:

AOX Value:

13. Disposal Considerations

13. 1. Waste Treatment Methods

Product:

In accordance with current regulations, product may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority.

European Waste Code (EWC):

Uncleaned packaging:

Uncontaminated packaging may be recycled. Completely empty packaging can be disposed of with the regular waste.

Waste Code No.:

14. Transport Information

14. 1. UN Number

ADR, IMDG, IATA

14. 2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR (land transportation).

IMDG/IATA:

No hazardous goods according to IMDG.

14. 3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

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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

None

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:

1, slightly hazardous for water (German Regulation)

Local regulations on chemical accidents:

Employment restrictions:

Restriction and prohibition of application:

EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: not applicable

Technical instructions on air quality:

15. 2. Chemical Safety Assessment

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

EC SVHC-List: This product does not contain a substance in the candidate list for substances of very high concern above the legal limit value (> 0.1 % (w/w) REACH Regulation (EC) 1907/2006, Article 57).

15. 3. Further Information

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

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from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.