

# Safety Data Sheet

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



**23330 Yellow, greenish, PY 129**

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Revised edition: 27.04.2026

Version: 3.1

Printed: 12.05.2026

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

1.1. Product Identifier

*Product Name:* Yellow, greenish, PY 129

*Article No.:* 23330

*UFI:*

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

*Identified uses:*

Coloring component

*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

*EMail:* 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)*

H332

Cat.: 4

Acute toxicity (inhalation), hazard category 4  
Harmful if inhaled.

*Possible Environmental Effects:*

See Section 12.

2.2. Label Elements

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

*Hazard designation:*



GHS07-1

*Signal word:*

Warning

*Hazard designation:*

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H332 Harmful if inhaled.

*Safety designation:*

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P271 Use only outdoors or in a well-ventilated area.  
P304+P340 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P312 Call a poison center or physician if you feel unwell.

*Hazardous components for labelling:*

2.3. Other Hazards

*This product is capable of dust explosion under certain circumstances.*

### 3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

*Chemical Characterization:* Azomethine-Copper complex. Pigment Yellow 129, C.I. 48042

*Information on Components / Hazardous Ingredients:*

[1-[[[2-Hydroxyphenyl]imino]methyl]-2-naphtholato(2-)-N,O,O']copper; REACH Reg. No. 01-2120100829-57-0000	80 - 100 %	CAS-Nr: 15680-42-9 EINECS-Nr: 239-763-1 EC-Nr:
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*Additional information:*

*ATE (Inhalation, dusts and mists) = 1.5 mg/l*  
*Particle characteristics:*  
*Form: Spheres (Aspect ratio (x) = 1 - 3 [TEM]); Crystallinity: crystalline; Specific treatment: Agent(s), no specific treatment;*  
*Specific surface area: 70 - 110 m<sup>2</sup>/m<sup>3</sup> (BET)*  
*Particle size distribution: d10: 10 - 100 nm; d50: 10 - 100 nm; d90: 10 - 100 nm*

### 4. First Aid Measures

4.1. Description of the First Aid Measures

*General information:*

*If symptoms occur, or in case of doubt seek medical advice.*  
*In case of unconsciousness give nothing by mouth, place in stable side position and seek medical advice.*  
*Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.*

*After inhalation:*

*Supply fresh air and keep patient calm.*  
*In case breathing is not regular or if it has stopped, seek medical advice immediately and initiate first aid measures.*

*After skin contact:*

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*Remove contaminated clothing and shoes immediately.  
Clean skin thoroughly with soap and water or use an approved skin cleanser.  
Do not use solvents or thinners.*

*After eye contact:*

*Rinse open eyes with plenty of water for at least 15 minutes.  
Remove contact lens.  
Consult a physician.*

*After ingestion:*

*If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.*

4. 2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*No further information available.  
Exposure to concentrations in the air that exceed legal or recommended limits may cause irritation of the nose, throat, and lungs.*

*Effects:*

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

*Treatment:*

*In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.*

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## 5. Fire-Fighting Measures

5. 1. Extinguishing Media

*Suitable extinguishing media:*

*Foam, carbon dioxide (CO<sub>2</sub>), extinguishing powder, water spray.*

*Unsuitable extinguishing media:*

*Water with full jet.*

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

*Special hazards:*

*In case of fire: formation of carbon oxides, nitrogen oxides and fumes.  
Not explosive.*

5. 3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device.*

*Further information:*

*This material is toxic to aquatic organisms and has long-term effects. Firefighting water contaminated with this substance must be contained and must not be allowed to enter waterways, sewers, or drains.*

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## 6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Avoid formation of dust, wear protective clothing.*

*Avoid inhalation of dust.*

6.2. Environmental Precautions

*Environmental precautions:*

*Keep spills and cleaning runoff out of municipal sewers and open bodies of water.*

*Prevent contamination of soil, drains and surface waters.*

6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Absorb with inert material (e.g. sand, earth, vermiculite, diatomaceous earth) and place in a suitable container for disposal.*

*Preferably clean with detergent. Avoid the use of solvents.*

6.4. Reference to other Sections

*Protective clothing, see Section 8.*

*See Section 13 for information on disposal.*

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## 7. Handling and Storage

7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Avoid formation of dust.*

*Respiratory protection when handling without exhaust system.*

*Hygienic measures:*

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

*Clean contaminated clothing before entering eating areas.*

7.2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store in tightly sealed containers in a dry and cool room.*

*Protect against heat and direct sunlight.*

*Requirements for storage areas and containers:*

*Store the product in the original container.*

*Information on fire and explosion protection:*

*Avoid dust formation.*

*Take measures to prevent electrostatic discharge.*

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

*Storage class:*

*11; Combustible solids (TRGS 510)*

*Further Information:*

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*Recommended storage temperature: 5 - 35°C*

7. 3. Specific End Use(s)

*Further information:*

*See Section 1.2.; no other uses provided*

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## 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):*

*2.35 mg/m<sup>3</sup> (worker, inhalation, long-term exposure - systemic effects)*

*3.3 mg/kg (worker, skin contact, long-term exposure - systemic effects)*

*0.58 mg/m<sup>3</sup> (consumer, inhalation, long-term exposure - systemic effects)*

*1.7 mg/kg (consumer, skin contact, long-term exposure - systemic effects)*

*0.17 mg/m<sup>3</sup> (consumer, swallowing, long-term exposure - systemic effects)*

*PNEC (Predicted No-Effect Concentration):*

*Fresh water: 0.015 mg/l*

*Seawater: 0.0015 mg/l*

*Fresh water sediment: 0.181 mg/kg*

*Sea water sediment: 0.0181 mg/kg*

*Sewage treatment system (STP): 100 mg/l*

*Intermittent release: 0.155 mg/l*

*Soil: 0.0271 mg/kg*

*Additional Information:*

8. 2. Exposure Controls

*Technical protective measures:*

*Provide adequate ventilation in case of dust formation.*

*Personal Protection*

*General protective measures:*

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

*Respiratory protection:*

*Required in case of insufficient ventilation.*

*Hand protection:*

*Chemical protective gloves (EN 374 (Europe), F739 (US)).*

*The manufacturer's directions for use should be observed because of the great diversity of types.*

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*Protective glove material:*

*The glove material must be sufficiently impermeable and resistant against the product.*

*Eye protection:*

*Safety glasses with protective shields (EN 166).*

*Body protection:*

*Staff should wear antistatic clothing made of natural fibers or heat-resistant synthetic fibers.*

*Safety shoes.*

*Environmental precautions:*

*Prevent from getting into the soil, surface water and sewage system.*

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## 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>ca. 7</i>
<i>Melting temperature:</i>	<i>&gt; 300°C</i>
<i>Boiling temperature:</i>	<i>not applicable</i>
<i>Flash point:</i>	<i>not applicable</i>
<i>Evaporation rate:</i>	<i>This product is a non-volatile solid.</i>
<i>Flammability (solid, gas):</i>	<i>not highly flammable</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>no information available</i>
<i>Vapor pressure:</i>	<i>not applicable</i>
<i>Vapor density:</i>	<i>No information available.</i>
<i>Density:</i>	<i>1.87 g/cm<sup>3</sup> (20°C)</i>
<i>Solubility in water:</i>	<i>insoluble</i>

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*Coefficient of variation (n-Octanol/Water):*

*not applicable*

*Auto-ignition temperature:*

*> 500°C (> 932°F)*

*Product is not auto-ignitable (Test type: Spontaneous self-ignition at room temperature)*

*Decomposition temperature:*

*370°C  
(DSC (DIN 51007))*

*Viscosity, dynamic:*

*not applicable*

*Explosive properties:*

*Product does not present an explosion hazard.*

*Oxidizing properties:*

*not oxidizing*

*Bulk density:*

*1600 kg/m<sup>3</sup>*

## 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic:*

*Burning class:*

*Solvent content:*

*VOC Content: Not applicable*

*Solid content:*

*Particle size:*

*Particle characteristics: Further details regarding the determination of nanoforms see Section 3.*

*Other information:*

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## 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

*None if handled and stored according to specifications.*

10.4. Conditions to Avoid

*Conditions to avoid:*

*May form hazardous decomposition products when exposed to high temperatures.*

*Thermal decomposition:*

10.5. Incompatible Materials

*Strong acids, strong bases, oxidizing agents.*

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10.6. Hazardous Decomposition Products

*None if stored and handled according to specifications.*

10.7. Further Information

## 11. Toxicological Information

11.1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

*Acute Toxicity*

*Exposure to airborne concentrations above the legal or recommended limits may cause irritation of the nose, throat and lungs.*

*LD50, oral:*

*> 5000 mg/kg (rat; OECD 401)*

*LD50, dermal:*

*not determined*

*LC50, inhalation:*

*1-5 mg/l (4h, rat; OECD 403)*

*Primary effects*

*Irritant effect on skin:*

*No information available*

*Irritant effect on eyes:*

*Not irritating*

*Inhalation:*

*No information available.*

*Ingestion:*

*No information available*

*Sensitization:*

*Non sensitizing (guinea pig; OECD 406).*

*Mutagenicity:*

*Product does not show a mutagenic effect in a test with bacteria.*

*Reproductive toxicity:*

*Did not show any teratogenic effects in animal studies (OECD 421/422).*

*Carcinogenicity:*

*No relevant data found.*

*Teratogenicity:*

*No indications of a teratogenic effect were seen in animal studies (OECD 421/422).*

*Specific target organ toxicity (STOT):*

*Single exposure: no organospecific toxicity expected.*

*Repeated exposure: Not classified based on available information.*

*Aspiration hazard:*

*No risk of aspiration.*

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11. 2. Information on other Hazards

*No further information available.*

## 12. Ecological Information

12. 1. Aquatic Toxicity

*Acutely harmful for aquatic organisms. Based on long-term (chronic) toxicity study data, the product is very likely not harmful to aquatic organisms.*

*Fish toxicity:*

*LC50: > 100 mg/l (96h, Danio rerio; OECD 203)*

*Daphnia toxicity:*

*EC50: > 100 mg/l (48h, Daphnia magna; OECD 202)*

*Bacteria toxicity:*

*EC20: > 1000 mg/l (3h, active sludge; OECD 209)*

*Algae toxicity:*

*EC50: 1 - 10 mg/l (72h, Pseudokirchneriella subcapitata; OECD 201)*

12. 2. Persistency and Degradability

*Not readily biodegradable.*

12. 3. Bioaccumulation

*Bioaccumulation is not to be expected.*

12. 4. Mobility

*Adsorption to solid soil phase is not expected.*

*Partition coefficient soil/water (Koc): 81.09*

12. 5. Results of PBT- und vPvP Assessment

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

12. 6. Endocrine Disrupting Properties

*No data available.*

12. 7. Other Adverse Effects

*Water hazard class:*

*1, slightly hazardous*

*Behaviour in sewage systems:*

*No impairment of the biodegradability of active sludge expected when small amounts are discharged in biological sewage plants.*

*Further ecological effects:*

*The product is not soluble in water. No negative effects expected. Do not discharge product uncontrolled into the environment.*

*AOX Value:*

*Product does not contain any organically bound halogens which influence the AOX value of discard water.*

## 13. Disposal Considerations

13. 1. Waste Treatment Methods

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*Product:*

*Disposal should be avoided or minimized.*

*Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.*

*Dispose of surpluses and products unsuitable for recycling via a recognized waste disposal company. Do not discharge waste untreated into the sewage system unless all applicable regulations of the authorities are complied with.*

*European Waste Code (EWC):*

*040216 - Dyestuffs and pigments containing hazardous substances*

*Uncleaned packaging:*

*Product residues must be emptied out of packaging material, which must then be disposed of in the proper fashion in agreement with legal regulations.*

*Empty containers must be scrapped or overhauled.*

*Waste and containers must be disposed of in a secure manner.*

*Avoid spreading and draining released material and contact with soil, water, drains, and sewage pipes.*

*Waste Code No.:*

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## 14. Transport Information

14. 1. UN Number

*ADR, IMDG, IATA*

14. 2. UN Proper Shipping Name

*ADR/RID:*

*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):*

*not applicable*

*Hazard no.:*

*EmS No.:*

*IATA Class:*

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*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 applicable*

14. 7. Maritime Transport in Bulk according to IMO Instruments

*not evaluated*

14. 8. Further Information

*Not classified as a dangerous good under transport regulations.*

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## 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 (according to the German Regulation AwSV)*

*Local regulations on chemical accidents:*

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

*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:*

*5.2.2.: 100 % (Classification III)*

15. 2. Chemical Safety Assessment

*A Chemical Safety Assessment has been carried out for this product.*

15. 3. Further Information

*EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable*

*Regulation (EC) 2024/590 - Substances that Deplete the Ozone Layer: not regulated / not applicable*

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

*Regulation on Persistent Organic Pollutants (POP): not listed*

*Listed in the following inventories:*

*TSCA (US), AIIC (AUS), DSL (CA), ISHL (JP), KECI (KR), PICCS (PH), NZIoC (NZ), IECSC (CN), TSCI (TW)*

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VOC Content: 0 %

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## 16. Other Information

*CEPE Code: 1*

*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.*