

# Safety Data Sheet

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



## 23670 Isoindole Yellow-Orange, PY 110

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Revised edition: 17.05.2018

Version: 3.2

Printed: 19.12.2018

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

#### 1.1. Product Identifier

*Product Name:* Isoindole Yellow-Orange, PY 110

*Article No.:* 23670

#### 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.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)*

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

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

*The material is not subject to classification according to EC lists.*

*Safety Phrases:*

*Possible Environmental Effects:*

#### 2.2. Label Elements

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

*No classification required according to the CLP/GHS guidelines.*

*Hazard designation:*

*Not applicable.*

*Signal word:*

*Hazard designation:*

*Safety designation:*

*Hazardous components for labelling:*

#### 2.3. Other Hazards

*This product is capable of dust explosion under certain*

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*circumstances.*

### 3. Composition/Information on Ingredients

#### 3.1. Substance

#### 3.2. Mixture

*Chemical Characterization:* Synthetic organic pigment, tetrachloroisoindolinone. Pigment Yellow 110, C.I. 56280

*Information on Components / Hazardous Ingredients:*

C.I. Pigment Yellow 110; REACH Reg. No. 01-2119971794-22-0000, 01-2119971794-22-0001	100 %	CAS-Nr: 106276-80-6 EINECS-Nr: 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.*

*After inhalation:*

*Supply fresh air and seek medical advice in case of complaints.*

*After skin contact:*

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

*After eye contact:*

*Rinse open eyes with plenty of water for at least 15 minutes.*

*After ingestion:*

*Rinse mouth with water and drink plenty of water.*

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

*Symptoms:*

*No further information available.*

*Effects:*

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

*Treatment:*

*Symptomatic treatment (decontamination, vital functions), no specific antidote known.*

### 5. Fire-Fighting Measures

#### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*Extinguishing powder, foam.*

*Unsuitable extinguishing media:*

*Carbon dioxide (CO<sub>2</sub>)*

#### 5.2. Special Hazards arising from the Substance or Mixture

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*Special hazards:*

*In case of fire: hazardous vapors may be released. Development of fumes/aerosol.*

**5.3. Advice for Firefighters**

*Protective equipment:*

*Wear self-contained respiratory protective device.*

*Further information:*

*Avoid formation of dust: risk of dust explosion.*

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

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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.*

**6.2. Environmental Precautions**

*Environmental precautions:*

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

**6.3. Methods and Material for Containment and Cleaning Up**

*Methods and material:*

*Small spills:*

*Clean up with suitable appliance and dispose adequately.*

*Large spills:*

*Contain with dust binding material and dispose accordingly.*

*Avoid dust formation.*

**6.4. Reference to other Sections**

*Protective clothing, see Section 8.*

*Dispose of contaminated material according to Section 13.*

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**7. Handling and Storage**

**7.1. Precautions for Safe Handling**

*Instructions on safe handling:*

*Respiratory protection when handling without exhaust system.*

*Hygienic measures:*

*Do not inhale dust. Wash hands before breaks and at the end of work.*

**7.2. Conditions for Safe Storage, including any Incompatibilities**

*Storage conditions:*

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

*Requirements for storage areas and containers:*

*Keep container tightly closed.*

*Information on fire and explosion protection:*

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*Avoid dust formation. Protect against electrostatic charging.  
Dust explosion class 1 (Kst-value > 0 - 200 bar m/s).*

*Storage class (VCI):*

*11; Combustible solids*

*Further Information:*

### 7.3. Specific End Use(s)

*Further information:*

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## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Does not contain substances with occupational exposure limits.*

*Parameters to be controlled (DE):*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

*10 mg/m<sup>3</sup> (worker, inhalation, long-term exposition - local effects)*

*Predicted No-Effect Concentration (PNEC):*

*Sewage treatment system (STP): 10 mg/l*

*Soil: 1 mg/l*

*Additional Information:*

### 8.2. Exposure Controls

*Technical protective measures:*

*Personal Protection*

*General protective measures:*

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

*Protective clothing recommended due to the coloring effects of the product.*

*Respiratory protection:*

*Suitable respiratory protection for lower concentration or short-term effect: particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, type P2 or FFP2).*

*Hand protection:*

*Protective gloves (EN 374)*

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

*Protective glove material:*

*Recommended: Protective index 6, > 480 min. of permeation time accord. EN 374.*

*Nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinyl chloride (0.7 mm).*

*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.*

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*Eye protection:*

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

*Body protection:*

*Protective clothing.*

*Environmental precautions:*

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### 9. Physical and Chemical Properties

#### 9.1. Information on Basic Physical and Chemical Properties

*Form:* powder

*Color:* yellow

*Odor:* odorless

*Odor threshold:*

*No information available.*

*pH-Value:* 5.5 - 8.5

*Melting temperature:* > 300°C

*Boiling temperature:*

*not applicable*

*Flash point:*

*not available*

*Evaporation rate:*

*This product is a non-volatile solid.*

*Flammability (solid, gas):*

*> 530°C (BAM)  
not easily flammable*

*Upper explosion limit:*

*no information available*

*Lower explosion limit:*

*no information available*

*Vapor pressure:*

*not applicable*

*Vapor density:*

*This product is a non-volatile solid.*

*Density:*

*1.9 g/cm<sup>3</sup> (20°C)*

*Solubility in water:*

*insoluble*

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

*no information available*

*Auto-ignition temperature:*

*> 350°C  
Product is not auto-ignitable.*

*Decomposition temperature:*

*> 400°C*

*Viscosity, dynamic:*

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*not applicable*

*Explosive properties:*

*Product does not present an explosion hazard.*

*Oxidizing properties:*

*not oxidizing*

*Bulk density:*

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

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

*Self-heating ability: This product is not a self-heating substance according to the UN class 4.2 (UN Test N.4)*

*Minimum ignition energy: The product is capable of dust explosion.*

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## 10. Stability and Reactivity

### 10.1. Reactivity

*Stable if used according to specifications.*

*Not corrosive for metals.*

### 10.2. Chemical Stability

*Stable if used according to specifications.*

### 10.3. Possibility of Hazardous Reactions

*Risk of dust explosion.*

### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Avoid formation of dust.*

*Avoid electrostatic discharge.*

*Thermal decomposition:*

### 10.5. Incompatible Materials

*None known.*

### 10.6. Hazardous Decomposition Products

*Hydrogen chloride.*

*Carbon oxides, nitrogen oxides, toxic fumes/vapors.*

### 10.7. Further Information

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## 11. Toxicological Information

### 11.1. Information on Toxicological Effects

*Product shows practically no toxicity after a single oral, dermal or inhalative exposure.*

*Acute Toxicity*

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<i>LD50, oral:</i>	<i>&gt; 5000 mg/kg (rat; OECD 423)</i>
<i>LD50, dermal:</i>	<i>&gt; 2500 mg/kg (rat; OECD 402)</i>
<i>LC50, inhalation:</i>	<i>&gt; 1.04 mg/l (4h, rat; OECD 403)</i>
<i>Primary effects</i>	
<i>Irritant effect on skin:</i>	<i>Non irritating (rabbit)</i>
<i>Irritant effect on eyes:</i>	<i>Non-irritating to eyes (rabbit)</i>
<i>Inhalation:</i>	<i>No information available.</i>
<i>Ingestion:</i>	<i>No information available</i>
<i>Sensitization:</i>	<i>No sensitizing effects known.</i>
<i>Mutagenicity:</i>	<i>No relevant data found.</i>
<i>Reproductive toxicity:</i>	<i>No relevant data found.</i>
<i>Carcinogenicity:</i>	<i>No relevant data found.</i>
<i>Teratogenicity:</i>	<i>No information available.</i>
<i>Specific target organ toxicity (STOT):</i>	<i>Single exposure: no organospecific toxicity expected. Repeated exposure: no information available.</i>
<i>Additional toxicological information:</i>	<i>Aspiration hazard: not applicable</i>

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## 12. Ecological Information

### 12.1. Aquatic Toxicity

<i>Fish toxicity:</i>	<i>LC50: &gt; 100 mg/l (96h, Danio rerio; OECD 203)</i>
<i>Daphnia toxicity:</i>	<i>EC50: &gt; 100 mg/l (48h, Daphnia magna; OECD 202)</i>
<i>Bacteria toxicity:</i>	<i>EC20: 810 mg/l (0.5h, active sludge; OECD 209) Terrestrial organisms, NOEC: &gt; 1000 mg/kg (14d, Eisenia foetida; OECD 207)</i>
<i>Algae toxicity:</i>	<i>EC50: &gt; 100 mg/l (72h, Desmodesmus subspicatus; OECD 201) NOEC: &gt; 100 mg/l (72h, Desmodesmus subspicatus; OECD 201)</i>

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### 12.2. Persistency and Degradability

*Not readily biodegradable.*

*Elimination information: 5.46 % BOD of COD (aerob. activated sludge)*

### 12.3. Bioaccumulation

*No bioaccumulation expected due to the distribution coefficient n-Octanol/water (logPOW).*

### 12.4. Mobility

*Adsorption to solid soil phase is not expected.*

### 12.5. Results of PBT- und vPvP Assessment

*According to Annex VIII to Regulation (EC) No. 1907/2006 (REACH): this product is neither a PBT (persistent/bioaccumulative/toxic) or vPvB (very persistent/very bioaccumulative/very toxic) substance nor does it contain a PBT or vPvB substance.*

### 12.6. Other Adverse Effects

*Water hazard class:*

*1 (German Regulation) (Assessment by list): slightly hazardous.*

*Behaviour in sewage systems:*

*Treatment and discharge of waste water into biological treatment plant should be carried out according to official national and local regulations.*

*Further ecological effects:*

*The product does not contain any substances which can deplete the ozone layer, according to Section I of EC-Directive 2037/2000/EC.*

*AOX Value:*

*Product contains according to the formulation, organically bound halogen. It can increase the AOX-value in the water purification plants overflow or if it reaches waters.*

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## 13. Disposal Considerations

### 13.1. Waste Treatment Methods

*Product:*

*In accordance with current regulations, product may be taken to a 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.*

*Packaging may be disposed of in the same manner as the product.*

*Waste Code No.:*

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## 14. Transport Information

### 14.1. UN Number

*ADR, IMDG, IATA*

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### 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:

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

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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 (German Regulation, Assessment by list)*

Local regulations on chemical accidents:

Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

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### 15.2. Chemical Safety Assessment

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

### 15.3. Further Information

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### 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.*