

Safety Data Sheet

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



56910 Photochrome Pigment Yellow

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Revised edition: 25.01.2023

Version: 6

Printed: 05.01.2026

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

1.1. Product Identifier

Product Name: Photochrome Pigment Yellow

Article No.: 56910

UFI:

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

Identified uses:

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

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)

Acute toxicity (oral), hazard category 4

Acute toxicity (dermal), hazard category 4

Skin irritation, hazard category 2

Skin sensitization, hazard category 1

Eye irritation, hazard category 2

Acute toxicity (inhalation), hazard category 4

Chronic aquatic toxicity, hazard category 1

H302+H312 Harmful if swallowed or in contact with skin.

Cat.: 4

H315 Causes skin irritation.

Cat.: 2

H319 Causes serious eye irritation.

Cat.: 2

H332 Harmful if inhaled.

Cat.: 4

H410 Very toxic to aquatic life with long lasting effects.

Cat.: 1

Possible Environmental Effects:

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2.2. Label Elements

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

Hazard designation:



GHS07-1



GHS09

Signal word:

Warning

Hazard designation:

H302+H312	Harmful if swallowed or in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H410	Very toxic to aquatic life with long lasting effects.

Safety designation:

P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P312	Call a poison center or physician if you feel unwell.
P391	Collect spillage

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:

Poly(styrene-alt-maleic anhydride), partial methyl (H315-319-335)	7 - 8 %	CAS-Nr: 31959-78-1 EINECS-Nr: 663-534-9 EC-Nr:
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4-(1-Phenylethyl)-o-xylene (H302-312-315-319-332-410, M=1)	55 - 62 %	CAS-Nr: 6196-95-8 EINECS-Nr: 228-249-2 EC-Nr:
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3H-Naphtho [2,1-b]pyran, 3,3-diphenyl- (H411) 1.5 - 2 %

CAS-Nr: 4222-20-2

EINECS-Nr: 609-998-8

EC-Nr:

Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Seek medical attention in case of complaints.

After inhalation:

Supply fresh air. Consult physician if symptoms persist.

After skin contact:

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

Wash contaminated clothing before reuse.

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.

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 spray.

Unsuitable extinguishing media:

None known.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

Combustible material.

In case of fire: formation of irritating gases/vapors.

May cause explosive gas-air-mixtures.

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5.3. Advice for Firefighters

Protective equipment:

Normal fire fighting clothing, i.e. fire kit (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

Further information:

Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.

Cool exposed containers with water spray.

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Avoid formation of dust, wear protective clothing.

Wear protective clothing.

6.2. Environmental Precautions

Environmental precautions:

Do not discharge into drains, surface or ground water in concentrated form.

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.

Dispose of contaminated material according to Section 13.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Wear adequate protective clothing (see para. 8).

Hygienic measures:

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

Take off contaminated clothing immediately.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

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

Protect product from direct sunlight.

Requirements for storage areas and containers:

Store the product in the original container.

Information on fire and explosion

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protection:

No special measures necessary.

Storage class:

Further Information:

7. 3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8. 1. Parameters to be Controlled

Parameters to be controlled (DE):

TLV: 1.25 mg/m³ general dust limit inhalable fraction.

TLV: 10 mg/m³ inhalable fraction (general dust limit)

Parameters to be controlled:

Derived No-Effect Level (DNEL):

PNEC (Predicted No-Effect Concentration):

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:

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

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:

Eye protection:

Tightly fitting safety goggles (EN 166).

Body protection:

Protective suit with long sleeves.

Safety shoes (EN 344).

Environmental precautions:

Prevent from getting into the soil, surface water and sewage

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system.

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

<i>Form:</i>	<i>powder</i>
<i>Color:</i>	<i>white</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>no information available</i>
<i>pH-Value:</i>	<i>not available</i>
<i>Melting temperature:</i>	<i>not determined</i>
<i>Boiling temperature:</i>	<i>not applicable</i>
<i>Flash point:</i>	<i>not available</i>
<i>Evaporation rate:</i>	<i>No information available.</i>
<i>Flammability (solid, gas):</i>	<i>not available</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 determined</i>
<i>Vapor density:</i>	<i>No information available.</i>
<i>Density:</i>	<i>not determined</i>
<i>Solubility in water:</i>	<i>insoluble</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>not determined</i>

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Auto-ignition temperature:

No information available.

Decomposition temperature:

No data available.

Viscosity, dynamic:

not applicable

Explosive properties:

Product is not explosive; however, an explosive dust/air mixture can be formed.

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:

10. Stability and Reactivity

10.1. Reactivity

No decomposition if used according to specifications.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

Dust can form explosive mixtures with air.

10.4. Conditions to Avoid

Conditions to avoid:

Avoid formation of dust.

Thermal decomposition:

10.5. Incompatible Materials

None known.

10.6. Hazardous Decomposition Products

No information available.

10.7. Further Information

11. Toxicological Information

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

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Acute Toxicity

LD50, oral: 806 mg/kg
3H-Naphtho [2,1-b]pyran, 3,3-diphenyl-: > 2000 mg/kg

LD50, dermal: 1774 mg/kg
3H-Naphtho [2,1-b]pyran, 3,3-diphenyl-: > 2000 mg/kg

LC50, inhalation: 2.4 mg/l

Primary effects

Irritant effect on skin:
Strong irritant effect

Irritant effect on eyes:
Causes serious eye irritation.

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 relevant data found.

Specific target organ toxicity (STOT):
Single exposure: Not classified based on available information.
Repeated exposure: Not classified based on available information.

Aspiration hazard:
No risk of aspiration.

11. 2. Information on other Hazards
No further information available.

12. Ecological Information

12. 1. Aquatic Toxicity

Fish toxicity:
3H-Naphtho [2,1-b]pyran, 3,3-diphenyl-: EC50 > 6 mg/l (48h, crustaceans)

Daphnia toxicity:
No information available.

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Bacteria toxicity:

No data available.

Algae toxicity:

No information available.

12. 2. Persistency and Degradability

4-(1-Phenylethyl)-o-xylene: not readily biodegradable

12. 3. Bioaccumulation

No data available.

12. 4. Mobility

No data available.

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

This substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) No. 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1 % or higher.

12. 7. 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:

Reuse, when possible.

Product residues should be considered special hazardous waste.

Dispose of according to official national and local regulations.

European Waste Code (EWC):

Uncleaned packaging:

Non contaminated packaging can either be recycled or utilized for energy (incineration).

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):

not applicable

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

none known

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

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 (according to the German Regulation AwSV)

Local regulations on chemical accidents:

Seveso-III Directive (2012/18/EU): E1

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,

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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

*EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable
Regulation (EC) 649/2012 concerning the export and import of dangerous chemicals: Not applicable
Regulation (EU) No. 2019/1148, Annex I - Restricted Explosives Precursors (upper limit value for the purpose of licensing under Article 5(3)): None of the ingredients is listed.*

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.