

Safety Data Sheet

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



23850 Studio Yellow

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Revised edition: 10.04.2025

Version: 6.2

Printed: 29.01.2026

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

1.1. Product Identifier

Product Name: Studio Yellow

Article No.: 23850

UFI:

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

Identified uses:

*Chemical-technical industry
Paint and varnish industry
Plastics industry.
Printing inks*

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)*

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

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:

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2.3. Other Hazards

Organic substances in powder form may have the potential to cause dust explosions.

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Pigment Yellow 3, C.I. No. 11710 - Nanoform

Information on Components / Hazardous Ingredients:

Pigment Yellow 3, C.I. 11710 (2-[(4-chloro-2-nitrophenyl)azo]-N-(2-chlorophenyl)-3-oxobutyramide), REACH Reg. No. 01-2119958813-27-0000

CAS-Nr: 6486-23-3

EINECS-Nr: 229-355-1

EC-Nr:

Additional information:

Nano C.I. Pigment Yellow 3 (CAS 6486-23-3):

Particle characteristics:

Level of dustiness: Index: 46.281 1/mg (SMPS; DIN EN 17199-3); 983 1/ml (OPS; DIN EN 17199-3)

Particle size distribution: $d_{10} = 0.053 \mu\text{m} \pm 0.043 \mu\text{m}$; $d_{50} = 0.075 \mu\text{m} \pm 0.025 \mu\text{m}$; $d_{90} = 0.153 \mu\text{m} \pm 0.043 \mu\text{m}$ (TEM)

Specific surface area: $9 \text{ m}^2/\text{g} \pm 3 \text{ m}^2/\text{g}$ (BET); Surface treatment: no

This product/this mixture contains nanoforms.

Total content of nanomaterials: 50 - 100 %

Form: Spheres: 75 % (TEM); Cubes: 25 (TEM)

Crystallinity: crystalline (method XRD)

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 and keep patient calm.

After skin contact:

Wash with soap and rinse with plenty of water.

After eye contact:

Rinse open eyes with plenty of water. In case of discomfort seek medical help.

After ingestion:

Do not induce vomiting. Consult physician immediately.

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

Symptoms:

No further information available.

Effects:

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

Treatment:

No further information available.

5. Fire-Fighting Measures

5. 1. Extinguishing Media

Suitable extinguishing media:

Foam, water jet.

Unsuitable extinguishing media:

Carbon dioxide, water jet, dry extinguishing powder.

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

Special hazards:

In case of fire: formation of carbon oxides, nitrogen oxides.

5. 3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Further information:

6. Accidental Release Measures

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

Personal precautions:

Wear protective clothing.

Avoid formation of dust.

Keep away from sources of heat and ignition.

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.

Take precautionary measures against static discharges; risk of dust explosion.

6. 4. Reference to other Sections

For information for safe handling see Section 7.

See Section 13 for information on disposal.

7. Handling and Storage

7. 1. Precautions for Safe Handling

Instructions on safe handling:

Avoid formation of dust.

Hygienic measures:

Wash hands at the end of work. Preventive skin protection

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recommended.

Take off contaminated clothing immediately and reuse only after thoroughly cleaning these.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in closed container and keep product dry.

Requirements for storage areas and containers:

Keep container tightly closed.

Information on fire and explosion protection:

Take measures to prevent static electricity discharge, earth/ground all equipment.

Keep away from sources of ignition.

Dust may form an explosive mixture with air.

Storage class:

11; Combustible solids (TRGS 510)

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):

none known

Parameters to be controlled:

Derived No-Effect Level (DNEL):

No values available.

PNEC (Predicted No-Effect Concentration):

No values available.

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Adequate ventilation.

Personal Protection

General protective measures:

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

Wash hands before breaks and after work.

Wash contaminated clothes before reuse.

Preventive skin protection by applying protective cream.

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Respiratory protection:

Dust mask recommended when very dusty.

Hand protection:

Suitable protective gloves recommended, e.g. glove material: nitrile rubber (NBR).

Protective glove material:

Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time.

Eye protection:

Safety glasses (EN 166)

Body protection:

Protective clothing.

Environmental precautions:

No special measures required.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>powder</i>
<i>Color:</i>	<i>yellow</i>
<i>Odor:</i>	<i>weak</i>
<i>Odor threshold:</i>	<i>no information available</i>
<i>pH-Value:</i>	<i>5.5 - 8.5</i>
<i>Melting temperature:</i>	<i>255°C (DTA)</i>
<i>Boiling temperature:</i>	<i>not applicable</i>
<i>Flash point:</i>	<i>not applicable</i>
<i>Evaporation rate:</i>	<i>not applicable</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>< 0.000001 Pa (25°C)</i>
<i>Vapor density:</i>	<i>No information available.</i>

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<i>Density:</i>	<i>1.58 g/cm³ (20°C)</i>
<i>Solubility in water:</i>	<i>not determined</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>2.9 log POW (25°C)</i>
<i>Auto-ignition temperature:</i>	<i>> 260°C (VDI 2263)</i>
<i>Decomposition temperature:</i>	<i>> 260°C (Heat rate: 3 K/min)</i>
<i>Viscosity, dynamic:</i>	<i>not applicable</i>
<i>Explosive properties:</i>	<i>Risk of dust explosion.</i>
<i>Oxidizing properties:</i>	<i>not oxidizing</i>

Bulk density:

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Combustion factor 1: no scorching

Solvent content:

Solid content:

Particle size:

Particle characteristics: This substance/ mixture contains nanoforms (see Section 3).

Other information:

Minimum ignition energy: 38 - 56 mJ (with inductive resistance)

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

Dust can form explosive mixtures with air.

10.4. Conditions to Avoid

Conditions to avoid:

Avoid heat, open fire and other ignition sources.

Thermal decomposition:

260°C (heating rate: 3 K/min) (Method: DTA)

10.5. Incompatible Materials

Strong oxidizing agents.

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10.6. Hazardous Decomposition Products

*None if stored and handled according to specifications.
Carbon monoxide, carbon dioxide and nitrogen oxide.
Compounds of chlorine*

10.7. Further Information

11. Toxicological Information

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

Acute Toxicity

LD50, oral: > 8285 mg/kg (rat, f; OECD 401)

LD50, dermal: > 2000 mg/kg (rat, m/f; OECD 402)

LC50, inhalation:
not determined

Primary effects

Irritant effect on skin:
No skin irritation (24h, rabbit)

Irritant effect on eyes:
No irritating effect (24h, rabbit)

Inhalation:
No information available.

Ingestion:
No information available

Sensitization:
Non sensitizing (OECD 429, Mouse Local Lymph Node Assay (LLNA))

Mutagenicity:
In vitro genetic-toxicity: PRIVAL Modification of AMES Test for Azo Dyes: Conc.: 3 - 5000 (Salmonella typhimurium; OECD 471): negative
In vitro genetic-toxicity: PRIVAL Modification of AMES Test for Azo Dyes: Conc.: 3 - 5000 (Escherichia coli; OECD 471): negative

Reproductive toxicity:
One Generation Study
NOAEL Parents: 1000 mg/kg (Exposure period: 32d (m), >32d (f), Frequency of treatment: once daily, Expo-time before mating/male: 14d, Expo-time before mating/female: 14d, Dosage: 100 - 300 - 1000 mg/kg, rat, male/female)
NOAEL F1: 1000 mg/kg (Exposure period: 32d (m), >32d (f), Frequency of treatment: once daily, Expo-time before mating/male: 14d, Expo-time before mating/female: 14d, Dosage: 100 - 300 - 1000 mg/kg, rat, male/female) (OECD 422)
No reproductive toxicity expected.

Carcinogenicity:

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No relevant data found.

Teratogenicity:

NOAEL: 1000 mg/kg (32d (m), > 32d (f), once daily, dosage: 100 - 300 - 1000 mg/kg, rat, male/female; OECD 422)

NOAEL: 24.7 mg/kg (rat, inhalation)

Specific target organ toxicity (STOT):

Single exposure: no organospecific toxicity expected.

Repeated exposure: no organospecific toxicity expected.

Repeated exposure: NOAEL (oral): > 1000 mg/kg bw/d (32d (m), 49d (f), once daily; Dosage: 100 - 300 - 1000 mg/kg; rat; OECD 422); NOAEL (oral): > 1000 mg/kg bw/d (91 - 92d, once daily; Dosage: 50 - 200 - 1000 mg/kg; rat m/ff; OECD 408)

Aspiration hazard:

No risk of aspiration.

11. 2. Information on other Hazards

Endocrine Disrupting Properties:

This substance/mixture does not contain any components with endocrine disrupting properties in a percentage of 0.1 or greater, according to Article 57(f) of the REACH Regulation (EC) No. 1907/2006 or the Delegated Regulation (EC) 2017/2100 or the Delegated Regulation (EC) 2018/605.

12. Ecological Information

12. 1. Aquatic Toxicity

Fish toxicity:

LC50: > 1 mg/l (96h, *Danio rerio*; OECD 203)

Daphnia toxicity:

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

NOEC: > 1 mg/l (21d, *Daphnia magna*; OECD 211)

Bacteria toxicity:

EC50: > 1000 mg/l (3h, active sludge; OECD 209)

Toxicity to soil dwelling organisms:

NOEC: 1000 mg/kg (56d, *Eisenia foetida*; OECD 222)

Toxicity to Terrestrial Plants:

NOEC: 1000 mg/kg (21d, *Brassica napus*; OECD 208)

NOEC: 1000 mg/kg (21d, *Avena sativa*; OECD 208)

NOEC: 1000 mg/kg (21d, *Dicotyledonae: Glycine max*; OECD 208)

Algae toxicity:

ErC50: > 1 mg/l (72h, *Desmodesmus subspicatus*; OECD 201)

NOEC: 1 mg/l (72h, *Desmodesmus subspicatus*; OECD 201)

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6): LL50: > 100 mg/l (algae)

Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5): LL50: > 100 mg/l (algae)

12. 2. Persistency and Degradability

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	<p><i>Not readily biodegradable.</i></p> <p><i>5 % (28d, BOD in % of ThOD): not readily biodegradable (OECD 302C)</i></p> <p><i>1 % (28d, BOD in % of ThOD): not readily biodegradable (OECD 301F)</i></p>
12. 3. Bioaccumulation	<p><i>Product only has a low bioaccumulation.</i></p> <p><i>logPOW: < 3</i></p>
12. 4. Mobility	<p><i>Low potential to adsorb on soil (logPOW < 3)</i></p>
12. 5. Results of PBT- und vPvP Assessment	<p><i>This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1 % or higher.</i></p>
12. 6. Endocrine Disrupting Properties	<p><i>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.</i></p>
12. 7. Other Adverse Effects	
	<p><i>Water hazard class:</i></p> <p><i>1, slightly hazardous</i></p> <p><i>Do not let product contaminate ground water, waterways or sewage system.</i></p> <p><i>Behaviour in sewage systems:</i></p> <p><i>Further ecological effects:</i></p> <p><i>AOX Value:</i></p> <p><i>No data available.</i></p>

13. Disposal Considerations

13. 1. Waste Treatment Methods	
	<p><i>Product:</i></p> <p><i>Dispose of according to official national and local regulations.</i></p> <p><i>European Waste Code (EWC):</i></p> <p><i>Uncleaned packaging:</i></p> <p><i>Contaminated packaging must be disposed like the substance.</i></p> <p><i>Waste Code No.:</i></p>

14. Transport Information

14. 1. UN Number	
	<p><i>ADR, IMDG, IATA</i></p>
14. 2. UN Proper Shipping Name	

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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:

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. Maritime Transport in Bulk according to IMO Instruments

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 (according to the German Regulation AwSV)

Local regulations on chemical accidents:

Employment restrictions:

Restriction and prohibition of application:

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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 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) 1005/2009 - Substances that Deplete the Ozone Layer: not regulated / not applicable
Regulation (EU) 2019/1021 - Persistent organic pollutants: not regulated / not applicable
Regulation (EC) No. 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors: not forbidden and/or not restricted
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.