

Safety Data Sheet

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



23177 Perinone Orange, PO 43

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Revised edition: 19.12.2024

Version: 1.08

Printed: 21.03.2025

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

1.1. Product Identifier

Product Name: Perinone Orange, PO 43

Article No.: 23177

UFI: --

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

Identified uses:

*Colored printing inks
Ink related product*

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

E-Mail: 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)*

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

Hazard designation:

Not applicable.

Signal word:

Hazard designation:

Safety designation:

Hazardous components for labelling:

2.3. Other Hazards

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*Dust can form explosive mixtures with air.
The formation of dust is possible when handling and working with this product.
Dust can irritate respiratory tract, skin and eyes.*

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Pigment Orange 43, C.I. 71105

Information on Components / Hazardous Ingredients:

Pigment Orange 43, C.I. 71105	100 %	CAS-Nr: 4424-06-0
		EINECS-Nr:
		EC-Nr:

Additional information:

*Particle characteristics:
Bisbenzimidazol[2,1-b:2',1'-i]benzo[lmn][3,8]phenoanthrolin-8,17-dion
Form: acicular (Aspect ratio (x) = (3-7)); Crystallinity: crystalline;
Surface treatment: no; Specific surface area: 10 - 40 m²/g
Particle size distribution d₁₀: 30 - 45 nm; d₅₀: 40 - 70 nm; d₉₀: 90 - 110 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.

After inhalation:

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

After skin contact:

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

After eye contact:

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

After ingestion:

*Rinse mouth and give plenty of water to drink.
Do not induce vomiting.
Never give anything by mouth to an unconscious person.*

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

Symptoms:

Exposure to high concentrations of dust may result in upper respiratory tract (nose and throat) and pulmonary irritation.

Effects:

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

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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.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

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

Unsuitable extinguishing media:

Water with full jet.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

May cause explosive dust-air-mixtures.

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

5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.

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:

Wear protective clothing.

Avoid inhalation of dust.

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

Contact local authorities if product pollutes waterways or the sewage system.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Contain with non-flammable absorbent material (e.g. sand, diatomaceous earth, vermiculite) and dispose accordingly.

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:

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*Avoid formation of dust. Do not inhale dust.
Wear adequate protective clothing (see para. 8).
Use suitable respiratory protection in case of inadequate ventilation.*

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.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

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

Protect against heat and direct sunlight.

Requirements for storage areas and containers:

Keep containers upright and protect from damage.

Information on fire and explosion protection:

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

Storage class:

13; Non combustible solids (TRGS 510)

Further Information:

Recommended storage temperature: 5 - 35°C

7.3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

Does not contain any components with workplace limit values.

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:

Provide adequate ventilation/exhaust system.

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.

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Wash contaminated clothes before reuse.

Respiratory protection:

Required in case of insufficient ventilation.

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Eye protection:

Recommended in case of dust formation (EN 166).

Body protection:

Not required.

Environmental precautions:

Do not allow entering sewerage system.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>solid</i>
<i>Color:</i>	<i>orange</i>
<i>Odor:</i>	<i>characteristic</i>
<i>Odor threshold:</i>	<i>not applicable</i>
<i>pH-Value:</i>	<i>not determined</i>
<i>Melting temperature:</i>	<i>not applicable</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 applicable</i>
<i>Upper explosion limit:</i>	<i>not applicable</i>
<i>Lower explosion limit:</i>	<i>not applicable</i>
<i>Vapor pressure:</i>	<i>not determined</i>
<i>Vapor density:</i>	<i>not determined</i>

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Density:	1.65 g/cm ³ (20°C)
Solubility in water:	not determined
Coefficient of variation (n-Octanol/Water):	not applicable
Auto-ignition temperature:	not applicable
Decomposition temperature:	not applicable
Viscosity, dynamic:	not applicable
Explosive properties:	not applicable
Oxidizing properties:	no information available

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 | Stable if used according to specifications. |
| 10.2. Chemical Stability | Stable if used according to specifications. |
| 10.3. Possibility of Hazardous Reactions | No information available. |
| 10.4. Conditions to Avoid | |
| Conditions to avoid: | Avoid heat and sources of ignition. |
| Thermal decomposition: | Exposure to high temperatures can form hazardous decomposition products. |
| 10.5. Incompatible Materials | |
| | Oxidizing agents.
Strong alkalis. |

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Strong acids.

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

No toxicity expected.

Acute Toxicity

LD50, oral:

LD50, dermal:

LC50, inhalation:

Primary effects

Irritant effect on skin:

No information available

Irritant effect on eyes:

No information available.

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No relevant data found.

Mutagenicity:

No relevant data found.

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

No relevant data found.

Teratogenicity:

No relevant data found.

Specific target organ toxicity (STOT):

Single exposure: no information available.

Repeated exposure: no information available.

Aspiration hazard:

No information available.

11.2. Information on other Hazards

No further information available.

12. Ecological Information

12.1. Aquatic Toxicity

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No information available.

Fish toxicity:

Daphnia toxicity:

Bacteria toxicity:

Algae toxicity:

12. 2. Persistency and Degradability

No information available.

12. 3. Bioaccumulation

No information available.

12. 4. Mobility

No information available.

12. 5. Results of PBT- und vPvP Assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

12. 6. Endocrine Disrupting Properties

No data available.

12. 7. Other Adverse Effects

Water hazard class:

Do not let run into surface waters, waste water or soil.

Behaviour in sewage systems:

Further ecological effects:

No special effects or hazards known.

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

Product:

Do not allow product to leak into the sewage system, waters or soil. This material and its container must be disposed of in a safe way.

European Waste Code (EWC):

040217 - Dyestuffs and pigments other than those mentioned in 040216

Uncleaned packaging:

Contaminated packaging must be treated like the substance.

Waste Code No.:

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 / DOT (US) (land transportation).

IMDG/IATA:

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 (German Regulation)

Local regulations on chemical accidents:

Does not underlie the Accident Ordinance.

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:

5.2.1.: 100 %

15. 2. Chemical Safety Assessment

A Chemical Safety Assessment is not necessary 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) 2037/2000 - Substances that Deplete the Ozone Layer: not regulated / not applicable

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

Listed in the following inventories:

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

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.