

Safety Data Sheet

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



23065 Phthalo Blue, Cyan Blue transparent, PB 15:4

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Revised edition: 15.11.2021

Version: 1.01

Printed: 04.04.2023

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

1.1. Product Identifier

Product Name: Phthalo Blue, Cyan Blue transparent, PB 15:4

Article No.: 23065

UFI: --

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

Identified uses:
Pigment

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)

H412

Cat.: 3

Hazardous to the aquatic environment, hazard category 2

Harmful to aquatic life with long lasting effects.

Possible Environmental Effects:

2.2. Label Elements

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

Hazard designation:

Not applicable.

Signal word:

Hazard designation:

H412

Harmful to aquatic life with long lasting effects.

Safety designation:

P273

Avoid release to the environment.

P501

Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

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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: Pigment Blue 15:4, C.I. 74160
Preparation made of: Copper phthalocyanine pigment*

*Information on Components / Hazardous
Ingredients:*

Hydrogen-[29H,31H-phthalocyanine sulfonate(3-)- N29,N30,N31,N32] cuprate(1-), compound with dodecylamine (1:1) (H319-400-410); REACH Reg. No. 01-212010495-65	5 - 10 %	CAS-Nr: 73455-75-1 EINECS-Nr: 277-475-8 EC-Nr:
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Take affected persons out into the fresh air.

After inhalation:

Supply fresh air and keep patient calm.

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.
Consult physician.*

After ingestion:

Rinse mouth with water and drink plenty of water.

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

Symptoms:

Headache, dizziness, nausea, unconsciousness, dry and chapped skin.

Effects:

No further information available.

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

Treatment:

Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Extinguishing powder, foam.

Unsuitable extinguishing media:

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Carbon dioxide (CO₂)

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

*In case of fire: hazardous gases/vapors may be released.
Do not inhale fumes.*

5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Further information:

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

Avoid formation of dust: risk of dust explosion.

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.

See Section 13 for information on disposal.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Respiratory protection when handling without exhaust system.

Hygienic measures:

Wash hands at the end of work. Preventive skin protection recommended.

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:

No special measures necessary.

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Information on fire and explosion protection:

Avoid dust formation. Protect against electrostatic charging.

Storage class:

11; Combustible solids (TRGS 510)

Further Information:

7.3. Specific End Use(s)

Further information:

See Section 1.2.; no other uses provided

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

No occupational exposure limits known.

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Hydrogen-[29H,31H-phthalocyanine sulfonate(3-)-N29,N30,N31,N32] cuprate(1-), compound with dodecylamine (1:1):
3.5 mg/m³ (worker, inhalation, long-term exposure - systemic effects)
10 mg/kg (worker, skin contact, long-term exposure - systemic effects)
0.87 mg/m³ (consumer, inhalation, long-term exposure - systemic effects)
5 mg/kg bw/d (worker, skin contact, long-term exposure - systemic effects)
0.5 mg/kg (consumer, swallowing, long-term exposure - systemic effects)

Predicted No-Effect Concentration (PNEC):

Hydrogen-[29H,31H-phthalocyanine sulfonate(3-)-N29,N30,N31,N32] cuprate(1-), compound with dodecylamine (1:1):
Fresh water: 0.000569 mg/l
Sea water: 0.000057 mg/l
Fresh water sediment: 2.42 mg/kg
Sea water sediment: 0.242 mg/kg
Intermittent release: 0.00569 mg/l
Sewage treatment system (STP): 100 mg/l
Soil: 0.481 mg/kg

Additional Information:

8.2. Exposure Controls

Technical protective measures:

No further measures, see Section 7.

Personal Protection

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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:

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

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

Protective glove material:

Recommended: Protective index 6, corresponding > 480 min. of permeation time according to EN 374.

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

Eye protection:

Safety glasses with protective shields (EN 166).

Body protection:

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>powder</i>
<i>Color:</i>	<i>blue</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>no information available</i>
<i>pH-Value:</i>	<i>7</i>
<i>Melting temperature:</i>	<i>300°C</i>
<i>Boiling temperature:</i>	<i>not determined</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>450°C (BAM) not highly flammable</i>
<i>Upper explosion limit:</i>	<i>no information available</i>

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Lower explosion limit:

no information available

Vapor pressure:

not applicable

Vapor density:

This product is a non-volatile solid.

Density:

1.6 g/m³ (20°C)

Solubility in water:

insoluble

Auto-ignition temperature:

450°C (842°C)

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

Decomposition temperature:

> 200°C

Viscosity, dynamic:

not applicable

Explosive properties:

*Product does not present an explosion hazard.
Risk of dust explosion.*

Oxidizing properties:

not oxidizing

Bulk density:

ca. 363 kg/m³

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.

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

Risk of dust explosion.

10.4. Conditions to Avoid

Conditions to avoid:

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Avoid electrostatic discharge.

Thermal decomposition:

10.5. Incompatible Materials

Strong acids, strong bases and strong oxidizing agents.

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

LD50, oral: > 2000 mg/kg (rat)

LD50, dermal: not determined

LC50, inhalation: not determined

Primary effects

Irritant effect on skin: Non irritating (rabbit; OECD 404)

Irritant effect on eyes: Non-irritating to eyes (rabbit; OECD 405)

Inhalation: No information available.

Ingestion: No information available

Sensitization: Non sensitizing (guinea pig; OECD 406).

Mutagenicity: No mutagenic effects observed.

Reproductive toxicity: No negative effects.

Carcinogenicity: No negative effects.

Teratogenicity: No information available.

*Specific target organ toxicity (STOT):
Single exposure: no organospecific toxicity expected.
Repeated exposure: no information available.*

*Aspiration hazard
Not applicable*

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11.2. Information on other Hazards

No further information available.

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

not determined

Daphnia toxicity:

EC50: 10 - 100 mg/l (48h, Daphnia magna; OECD 202)

Bacteria toxicity:

not determined

Algae toxicity:

not determined

12.2. Persistency and Degradability

Can be eliminated from water by chemical adsorption.

12.3. Bioaccumulation

Due to its low solubility the product may be removed from water mechanically in suitable effluent treatment plants.

12.4. Mobility

No information available.

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. Endocrine Disrupting Properties

Not listed.

12.7. Other Adverse Effects

Water hazard class:

1, slightly hazardous

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

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 contains copper bound as a complex.

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:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

In accordance with current regulations, product may be taken to a next page: 9

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waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority.

European Waste Code (EWC):

Uncleaned packaging:

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

Contaminated packaging must be disposed like the substance.

Waste Code No.:

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:

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.

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14.7. Maritime Transport in Bulk according to IMO Instruments

not applicable

14.8. Further Information

Not classified as a dangerous good under transport regulations.

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:

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 is not necessary for this product.

15.3. Further Information

Listed in the following inventories:

TSCA (US), AICS (AUS), DSL (CA), ENCS (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.