

Safety Data Sheet

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



23180 Red DPP BO, PR 254

Page 1

Revised edition: 17.06.2021

Version: 4.0

Printed: 07.11.2022

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

1.1. Product Identifier

Product Name: Red DPP BO, PR 254

Article No.: 23180

UFI: --

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.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)

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

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

Composition/Information on Ingredients

next page: 2

Safety Data Sheet

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



23180 Red DPP BO, PR 254

Page 2

Revised edition: 17.06.2021

Version: 4.0

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3.

3.1. Substance

3.2. Mixture

Chemical Characterization: Diketo-pyrrolo-pyrol. Pigment Red 254, C.I. 56110

Information on Components / Hazardous Ingredients:

Chromophtal DPP Red (Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis(4-chlorophenyl)-2,5-dihydro-); REACH Reg. No. 01-0000015139-70-0005, 01-2119937937-20-0000	100 %	CAS-Nr: 84632-65-5 EINECS-Nr: 401-540-3 EC-Nr:
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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 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 for at least 15 minutes.

After ingestion:

Rinse mouth and give 200 - 300 ml of water to drink.

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:

Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Foam, water jet.

Unsuitable extinguishing media:

Carbon dioxide (CO₂)

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

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

next page: 3

Safety Data Sheet

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



23180 Red DPP BO, PR 254

Page 3

Revised edition: 17.06.2021

Version: 4.0

Printed: 07.11.2022

5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Further information:

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

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:

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.

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:

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.
Do not store together with food stuff and animal feed.*

Requirements for storage areas and containers:

No special measures necessary.

Information on fire and explosion protection:

*Avoid dust formation.
Take measures to prevent electrostatic discharge.
Dust may form an explosive mixture with air.*

Storage class:

11; Combustible solids (TRGS 510)

Further Information:

next page: 4

Safety Data Sheet

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



23180 Red DPP BO, PR 254

Page 4

Revised edition: 17.06.2021

Version: 4.0

Printed: 07.11.2022

7.3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TRGS 900

TLV: 1.25 mg/m³ air-borne fraction (general dust limit)

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

Peak limit Category: 2 (II)

Parameters to be controlled:

Derived No-Effect Level (DNEL):

1.25 mg/m³ (worker, inhalation, long-term exposure - local effects)

10 mg/m³ (consumer, inhalation, long-term exposure - local effects)

Predicted No-Effect Concentration (PNEC):

Fresh water / Seawater: 0.499 mg/l

Fresh water sediment / Seawater sediment: 668 mg/l

Sewage treatment system (STP): 1 mg/l

Sporadic release: 0.499 mg/l

Soil: 1 mg/l

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Provide adequate ventilation/exhaust system.

Personal Protection

General protective measures:

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

It is recommended to wear closed work clothing.

Wash hands before breaks and after work.

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)).

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), butyl rubber (0.7 mm)

Eye protection:

Safety glasses with protective shields (EN 166).

next page: 5

Safety Data Sheet

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



23180 Red DPP BO, PR 254

Page 5

Revised edition: 17.06.2021

Version: 4.0

Printed: 07.11.2022

Body protection:

Protective clothing.

Environmental precautions:

Prevent from getting into the soil, surface water and sewage system.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: powder

Color: red

Odor: odorless

Odor threshold:
no information available

pH-Value: 5.5 - 8.5 (suspension)

Melting temperature: > 300°C (1013.25 hPa)

Boiling temperature:
not applicable

Flash point:
not applicable

Evaporation rate:
This product is a non-volatile solid.

Flammability (solid, gas):
Not a flammable solid according to UN transport regulations division 4.1 and GHS chapter 2.7.

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: 1.58 g/cm³ (20°C)

Solubility in water: < 0.499 mg/l (20°C; OECD 105)

Coefficient of variation (n-Octanol/Water):
< 3 logKOW

not determined

Auto-ignition temperature: > 400°C

Test type: Spontaneous self-ignition at elevated temperature (Method: Directive 92/69/EEC, A. 16)

Decomposition temperature:

No decomposition if used according to specifications

next page: 6

Safety Data Sheet

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



23180 Red DPP BO, PR 254

Page 6

Revised edition: 17.06.2021

Version: 4.0

Printed: 07.11.2022

Viscosity, dynamic:

not applicable

Explosive properties:

Product does not present an explosion hazard.

Oxidizing properties:

not oxidizing

Bulk density:

1580 kg/m³

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

0.9 µm

Other information:

Ignition temperature: > 600°C (BAM)

pKa: The substance does not dissociate.

Molar mass: 357.20 g/mol

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

Risk of dust explosion.

10.4. Conditions to Avoid

Conditions to avoid:

Avoid formation of dust.

Avoid ignition sources and electrostatic charging.

Thermal decomposition:

10.5. Incompatible Materials

None known.

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:

> 5000 mg/kg (rat)

LD50, dermal:

> 2000 mg/kg (rat; OECD 402)

next page: 7

Safety Data Sheet

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



23180 Red DPP BO, PR 254

Page 7

Revised edition: 17.06.2021

Version: 4.0

Printed: 07.11.2022

LC50, inhalation: > 2.25 mg/l (rat; OECD 403)

Primary effects

Irritant effect on skin:

Non irritating

Irritant effect on eyes:

Non-irritating to eyes

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

Non sensitizing (guinea pig; OECD 406).

Mutagenicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in studies with mammals.

Reproductive toxicity:

No negative effects known.

Carcinogenicity:

No relevant data found.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

*Single exposure: no organospecific toxicity expected.
Repeated exposure: no organospecific toxicity expected.*

Aspiration hazard

Not applicable

11.2. Information on other Hazards

No further information available.

12. Ecological Information

12.1. Aquatic Toxicity

Not hazardous for aqueous organisms.

Fish toxicity:

*LC50: > 100 mg/l (96h, Danio rerio; OECD 203)
Chronic toxicity (NOEC): no toxic effects (21d, Oncorhynchus mykiss; OECD 204)*

Daphnia toxicity:

*EC50: > 100 mg/l (24h, Daphnia magna; OECD 202)
Chronic toxicity (NOEC): no toxic effects (21d, Daphnia magna; OECD 202)*

Bacteria toxicity:

*EC20: > 100 mg/l (3h; active sludge)
Terrestrial organisms, LC50: > 1000 mg/kg (14d, Eisenia foetida)*

next page: 8

Safety Data Sheet

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



23180 Red DPP BO, PR 254

Page 8

Revised edition: 17.06.2021

Version: 4.0

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Terrestrial plants: EC50 > 1000 mg/kg (15d, Lolium perenne; OECD 208)

Algae toxicity:

EC50: > 100 mg/l (72h, Desmodesmus subspicatus; OECD 201)

12. 2. Persistency and Degradability

The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

Elimination information: 4 % CO₂-formation relative to the theoretical value (28d; OECD 301B; aerob. activated sludge)

12. 3. Bioaccumulation

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

12. 4. Mobility

*Assessment transport between environmental compartments:
Volatility: The substance will not evaporate into the atmosphere from the water surface.*

Adsorption in soil: Adsorption to solid soil phase is 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. Endocrine Disrupting Properties

Not listed.

12. 7. Other Adverse Effects

Water hazard class:

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

Behaviour in sewage systems:

Treatment in biological waste treatment plant has to be performed according to local and administrative regulations.

No impairment of the biodegradability of active sludge expected when small amounts are discharged in biological sewage plants.

Further ecological effects:

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.

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:

next page: 9

Safety Data Sheet

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



23180 Red DPP BO, PR 254

Page 9

Revised edition: 17.06.2021

Version: 4.0

Printed: 07.11.2022

*Non-contaminated packaging may be recycled.
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.

14.7. Maritime Transport in Bulk according to IMO Instruments

not applicable

14.8. Further Information

Do not store together with foodstuffs.

15. Regulatory Information

next page: 10

Safety Data Sheet

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



23180 Red DPP BO, PR 254

Page 10

Revised edition: 17.06.2021

Version: 4.0

Printed: 07.11.2022

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: not applicable under Directive 2012/18/EC.

Employment restrictions:

Restriction and prohibition of application:

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

Regulation (EC) 1005/2009 - Substances that Deplete the Ozone Layer: not regulated / 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.