

# Safety Data Sheet

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



**23178 Orange DPP RA, PO 73**

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Revised edition: 07.11.2018

Version: 5.0

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

### 1.1. Product Identifier

*Product Name:* Orange DPP RA, PO 73

*Article No.:* 23178

### 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.de

*E-Mail:* info@kremer-pigmente.de

*Importer:* --

### 1.4. Emergency No.

*Emergency No.:* +49 7565 914480 (Mon-Fri 8:00 - 17:00)

## 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.*

*Classification according to Directive No. 67/548/EC or No. 1999/45/EC*

*The material is not subject to classification according to EC lists.*

*Safety Phrases:*

*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:*

EUH208

May produce an allergic reaction.

*Safety designation:*

*Hazardous components for labelling:*

**Other Hazards**

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2.3.

*EUH208: Contains Zirconium(IV) hydrogenphosphate. Can cause allergic reactions.  
This product is capable of dust explosion under certain circumstances.*

### 3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

*Chemical Characterization: Diketo-pyrrolo-pyrrol. Pigment Orange 73, C.I. 561170*

*Information on Components / Hazardous Ingredients:*

Zirconium(VI) hydrogenphosphate (Skin Sens. 1, H317); REACH Reg. No. 01-2120114357-62	10 - 20 %	CAS-Nr: 13772-29-7 EINECS-Nr: 237-401-7 EC-Nr:
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*Additional information:*

### 4. First Aid Measures

4.1. Description of the First Aid Measures

*General information:*

*Remove contaminated clothes.*

*After inhalation:*

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

*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.*

*After ingestion:*

*Rinse mouth with water and drink plenty of water.*

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:*

*Symptomatic treatment (decontamination, vital functions), no specific antidote known.*

### 5. Fire-Fighting Measures

5.1. Extinguishing Media

*Suitable extinguishing media:*

*Extinguishing powder, foam.*

*Unsuitable extinguishing media:*

*Carbon dioxide (CO2)*

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## 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.*

## 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.*

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## 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:*

*Take up mechanically and collect in suitable containers for disposal. Avoid formation of dust and static discharges. Prevent from getting into sewage system. Wear protective gear and self-contained breathing apparatus.*

### 6.4. Reference to other Sections

*See Section 13 for information on disposal.  
Protective clothing, see Section 8.*

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## 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 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.*

*Information on fire and explosion protection:*

*Risk of dust explosion.*

*Keep away from sources of ignition - do not smoke. Take*

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*measures to prevent electrostatic discharge.*  
*Dust explosion class 1 (Kst-value > 0 - 200 bar m/s).*

*Storage class (VCI):*

*11; Combustible solids*

*Further Information:*

**7.3. Specific End Use(s)**

*Further information:*

*No further information available.*

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**8. Exposure Controls/Personal Protection**

**8.1. Parameters to be Controlled**

*Parameters to be controlled (DE):*

*Zirconiumbis (hydrogen phosphate) (CAS 13772-29-7): TLV (TRGS 900): 1 mg/m<sup>3</sup> (inhalable fraction); 1 (I). Measured as Zirconium (Zr)*

*Peak limit category 1*

*Category I: Substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

*Predicted No-Effect Concentration (PNEC):*

*Additional Information:*

**8.2. Exposure Controls**

*Technical protective measures:*

*Provide adequate ventilation in case of dust formation.*

*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.*

*Respiratory protection:*

*Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, type P2 or FFP2).*

*Hand protection:*

*Protective gloves (EN 374)*

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

*Protective glove material:*

*Recommended: Protective index 6, > 480 min. of permeation time accord. EN 374.*

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

*Eye protection:*

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*Safety glasses with protective shields (EN 166).*

*Body protection:*

*Protective clothing.*

*Environmental precautions:*

*Prevent contamination of open water ways and sewage system.  
Avoid contamination of ground water.*

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### 9. Physical and Chemical Properties

#### 9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>powder</i>
<i>Color:</i>	<i>orange</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>No information available.</i>
<i>pH-Value:</i>	<i>ca. 7.5</i>
<i>Melting temperature:</i>	<i>400°C</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>500°C (BAM)</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 applicable</i>
<i>Vapor density:</i>	<i>No information available.</i>
<i>Density:</i>	<i>1.30 g/cm<sup>3</sup></i>
<i>Solubility in water:</i>	<i>insoluble (20°C)</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>5 logKOW</i>
<i>Auto-ignition temperature:</i>	<i>ca. 380°C</i>
<i>Decomposition temperature:</i>	<i>not determined</i>
<i>Viscosity, dynamic:</i>	<i>not applicable</i>

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### *Explosive properties:*

*Product does not present an explosion hazard.*

### *Oxidizing properties:*

*not oxidizing*

### *Bulk density:*

*290 kg/m<sup>3</sup>*

## 9.2. Further Information

### *Solubility in solvents:*

### *Viscosity, kinematic*

### *Burning class:*

### *Solvent content:*

### *Solid content:*

### *Particle size:*

### *Other information:*

*No further information.*

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## 10. Stability and Reactivity

### 10.1. Reactivity

*Stable if used according to specifications.*

*Formation of flammable gases: > 350°C*

### 10.2. Chemical Stability

*Stable if used according to specifications.*

### 10.3. Possibility of Hazardous Reactions

*The product is not dust explosive when delivered. The accumulation of fine dust can however increase the risk of dust explosion.*

### 10.4. Conditions to Avoid

#### *Conditions to avoid:*

*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

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## 11. Toxicological Information

### 11.1. Information on Toxicological Effects

#### *Acute Toxicity*

#### *LD50, oral:*

*> 2000 mg/kg (rat; OECD 401)*

#### *LD50, dermal:*

*> 2000 mg/kg (rat; OECD 402)*

#### *LC50, inhalation:*

*No information available.*

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### *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:*

*No sensitizing effects known (guinea pig; OECD 406).*

*Mutagenicity:*

*No genotoxic potential.*

*Reproductive toxicity:*

*No relevant data found.*

*Carcinogenicity:*

*No relevant data found.*

*Teratogenicity:*

*No information available.*

*Specific target organ toxicity (STOT):*

*Single exposure: no information available.*

*Repeated exposure: no information available.*

*Additional toxicological information:*

*Aspiration hazard: not applicable*

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## 12. Ecological Information

### 12.1. Aquatic Toxicity

*Not hazardous for aqueous organisms. No toxic effects.*

*Fish toxicity:*

*LC50: > 40 mg/l (96h, *Oncorhynchus mykiss*; OECD 203)*

*Daphnia toxicity:*

*EC50: > 40 mg/l (48h, *Daphnia magna*; OECD 202)*

*Bacteria toxicity:*

*No negative effects.*

*Algae toxicity:*

*EC50: > 40 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: not biodegradable (28d; OECD 301B; ISO 9439; 92/69/EEC, C.4-C)*

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## 12.3. Bioaccumulation

*No information available.*

## 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. Other Adverse Effects

*Water hazard class:*

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

*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 is not soluble in water. No negative effects expected.*

*AOX Value:*

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## 13. Disposal Considerations

### 13.1. Waste Treatment Methods

*Product:*

*In accordance with current regulations, product may be taken to an incineration plant.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

*Packaging may be disposed of in the same manner as the product.*

*Uncontaminated packaging may be recycled.*

*Waste Code No.:*

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## 14. Transport Information

### 14.1. UN Number

*ADR, IMDG, IATA*

### 14.2. UN Proper Shipping Name

*ADR/RID:*

*No hazardous goods according to ADR (land transportation).*

*IMDG/IATA:*

*No hazardous goods according to IMDG.*

### 14.3. Transport Hazard Classes

*ADR Class:*

*not applicable*

*Hazard no.:*

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*Classification code:*

*Tunnel restriction code:*

*IMDG Class (sea):*

*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. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code**

*not applicable*

**14. 8. Further Information**

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**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, Assessment by list)*

*Local regulations on chemical accidents:*

*Employment restrictions:*

*Restriction and prohibition of application:*

*Technical instructions on air quality:*

**15. 2. Chemical Safety Assessment**

*A Chemical Safety Assessment has not yet been carried out for this product.*

**15. 3. Further Information**

*Regulation (EC) 2037/2000 - Substances that Deplete the Ozone Layer: not regulated / not applicable*

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**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*

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*therefore not be construed as guaranteeing specific properties.*