

# Safety Data Sheet

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



**78032 Orotan 731 K**

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Revised edition: 19.09.2024

Version: 7.0

Printed: 11.10.2024

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

### 1.1. Product Identifier

*Product Name:* Orotan 731 K  
*Article No.:* 78032  
*UFI:* YFFS-S0VE-900H-8RWH

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

*Identified uses:*  
Coatings 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

*Contains 1,2-Benzisothiazol-3(2H)-one: can cause allergic*

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*reactions.*

## 3. Composition/Information on Ingredients

### 3.1. Substance

### 3.2. Mixture

*Chemical Characterization:* Water soluble polycarboxylate  
This product is a mixture

*Information on Components / Hazardous Ingredients:*

Does not contain any hazardous components according to EC Guidelines 1272/2008.

1,2-Benzisothiazol-3(2H)-one (H302-315-317-318-400 (M=1)-411); Spec. conc. limits: H317 >= 0.05 %; REACH Reg. No. 01-2120761540-60	0.0025-0.025 %	CAS-Nr: 2634-33-5 EINECS-Nr: 220-120-9 EC-Nr: 613-088-00-6
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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.

In case of complaints consult a physician.

*After skin contact:*

Wash off immediately with soap and plenty of water.

Wash contaminated clothing with water before removing or wear protective gloves. Continue to rinse for at least 10 minutes.

*After eye contact:*

Rinse eyes thoroughly with water for several minutes. Remove the contact lenses within the first 1-2 minutes and continue rinsing the eyes for a few more minutes. If you experience any impairment, consult a doctor, preferably an ophthalmologist.

Seek medical attention if irritation persists.

A suitable eye shower should be available in the work area for emergencies.

*After ingestion:*

Rinse mouth with 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:*

Treat symptomatically.

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## 5. Fire-Fighting Measures

### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*Use extinguishing media for surrounding fire.*

*Unsuitable extinguishing media:*

### 5.2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*Material can splatter above 100°C/212°F. Dried product can burn.*

### 5.3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device and protective clothing.*

*Further information:*

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## 6. Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Wear protective clothing.*

*Keep unprotected persons out of danger zone.*

*Floor may be slippery; use care to avoid falling.*

### 6.2. Environmental Precautions

*Environmental precautions:*

*Caution: 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:*

*Contain with absorbent, inert material (sand, earth) and dispose accordingly.*

### 6.4. Reference to other Sections

*See Section 13 for information on disposal.*

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## 7. Handling and Storage

### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Avoid contact with eyes, skin and clothing.*

*Keep containers tightly closed.*

*Do not breathe vapors, spray or gas.*

*Hygienic measures:*

*Wash thoroughly after handling.*

### 7.2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Stir well before use.*

*If frozen, the product performance is not reduced. Defrost*

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*completely before use and mix thoroughly.  
Store between 1-49°C (34-120°F).*

*Requirements for storage areas and containers:*

*Information on fire and explosion protection:*

*Monomer vapors may be evolved when material is heated during processing operations.*

*Storage class:*

*10-13 (TRSG 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):*

*1,2-Benzisothiazol-3(2H)-one (CAS 2634-33-5): TWA: 0.06 mg/m<sup>3</sup>*

*Parameters to be controlled:*

*1,2-Benzisothiazol-3(2H)-one (CAS 2634-33-5): STEL: 0.1 mg/m<sup>3</sup>*

*Derived No-Effect Level (DNEL):*

*1,2-Benzisothiazol-3(2H)-one (2634-33-5):*

*0.966 mg/kg bw/d (worker, skin contact, long-term exposure - systemic effects)*

*6.81 mg/m<sup>3</sup> (worker, inhalation, long-term exposure - systemic effects)*

*0.345 mg/kg bw/d (consumer, skin contact, long-term exposure - systemic effects)*

*1.2 mg/m<sup>3</sup> (consumer, inhalation, long-term exposure - systemic effects)*

*PNEC (Predicted No-Effect Concentration):*

*1,2-Benzisothiazol-3(2H)-one (2634-33-5):*

*Freshwater: 0.004 mg/l*

*Sea water: 0.0004 mg/l*

*Fresh water sediment: 0.0499 mg/kg*

*Sea water sediment: 0.00499 mg/kg*

*Intermittent release: 0.0011 mg/l*

*Sewage treatment system (STP): 1.03 mg/l*

*Soil: 3.02 mg/kg*

*Additional Information:*

### 8.2. Exposure Controls

*Technical protective measures:*

*Use local exhaust ventilation in case of dust and/or fume formation.*

*Facilities storing or utilizing this material should be equipped with*  
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*an eyewash facility.*

## *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:*

*Respiratory equipment required in case of insufficient ventilation, filter type P2.*

### *Hand protection:*

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

### *Protective glove material:*

*Nitrile rubber (NBR), polyvinyl chloride (PVC), neoprene  
Recommended: Protective index 5, corresponding > 240 min. of permeation time (EN 374).*

*For short-term exposure:*

*Recommended: Protective index 3, corresponding > 60 min. of permeation time (EN 374).*

### *Eye protection:*

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

### *Body protection:*

*No special protection required.*

### *Environmental precautions:*

*Do not allow entering sewerage system.*

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## **9. Physical and Chemical Properties**

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

<i>Form:</i>	<i>liquid</i>
<i>Color:</i>	<i>colorless</i>
<i>Odor:</i>	<i>acrylic</i>
<i>Odor threshold:</i>	<i>no information available</i>
<i>pH-Value:</i>	<i>10.2 - 10.6</i>
<i>Melting temperature:</i>	<i>0°C (H2O)</i>
<i>Boiling temperature:</i>	<i>100°C (H2O)</i>
<i>Flash point:</i>	<i>not combustible</i>
<i>Evaporation rate:</i>	<i>&lt; 1.00 H2O</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>

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*no information available*

*Vapor pressure: 2266.4808000 Pa (20°C; H2O)*

*Vapor density: < 1.00 H2O*

*Density: 1.078 - 1.114 g/cm3*

*Solubility in water: soluble*

*Coefficient of variation (n-Octanol/Water): < 0.3 logPOW (OECD 117)*

*no information available*

*Auto-ignition temperature: No information available.*

*Decomposition temperature: not determined*

*Viscosity, dynamic: 55000 - 185000 mPa.s*

*Explosive properties: not available*

*Oxidizing properties: no information available*

*Bulk density:*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic:*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Not applicable, liquid*

*Other information:*

*Percent volatility: 74 - 76 % water*

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## 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

*Hazardous polymerisation will not occur.*

### 10.4. Conditions to Avoid

*Conditions to avoid:*

*No information available.*

*Thermal decomposition:*

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*No data available.*

**10.5. Incompatible Materials**

*None known.*

**10.6. Hazardous Decomposition Products**

*None known.*

**10.7. Further Information**

*Product does not polymerize.*

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**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)  
1,2-Benzisothiazol-3(2H)-one: 490 mg/kg (rat)*

*LD50, dermal:*

*> 2000 mg/kg (rabbit)  
1,2-Benzisothiazol-3(2H)-one: > 5000 mg/kg (rabbit)*

*LC50, inhalation:*

*> 5.1 mg/l (4h; rat)  
1,2-Benzisothiazol-3(2H)-one: 0.21 mg/l (estimated value)*

*Primary effects*

*Irritant effect on skin:*

*Slight irritant effect (rabbit).  
1,2-Benzisothiazol-3(2H)-one: Brief exposure may cause severe skin irritation with pain and local redness.*

*Irritant effect on eyes:*

*Slight irritant effect (rabbit).  
1,2-Benzisothiazol-3(2H)-one: May cause severe eye irritation and may result in permanent impairment of vision, even blindness.*

*Inhalation:*

*No information available.*

*Ingestion:*

*No information available*

*Sensitization:*

*1,2-Benzisothiazol-3(2H)-one: may cause sensitization by skin contact (guinea pig). Harmful if swallowed, fatal if inhaled. Causes skin irritation and severe eye damage. May cause allergic skin reactions.*

*Mutagenicity:*

*No relevant data found.*

*Reproductive toxicity:*

*1,2-Benzisothiazol-3(2H)-one: Did not cause any adverse effects on reproductive ability in animal studies.*

*Carcinogenicity:*

*1,2-Benzisothiazol-3(2H)-one: no information available*

*Teratogenicity:*

*1,2-Benzisothiazol-3(2H)-one: No birth defects caused in*  
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*laboratory animals.*

*Specific target organ toxicity (STOT):*

*1,2-Benzisothiazol-3(2H)-one:*

*No specific target organ toxicity expected after a single exposure.*

*Based on the assessment of available data, no significant adverse effects are expected from repeated exposure.*

*Aspiration hazard:*

*1,2-Benzisothiazol-3(2H)-one: 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:*

*For this product group:*

*LC50: 600 mg/l (96d, Pimephales promelas)*

*Daphnia toxicity:*

*For this product group:*

*EC50: > 1000 mg/l (48h, Daphnia Magna)*

*Bacteria toxicity:*

*Algae toxicity:*

*For this product group:*

*ErC50: > 1000 mg/l (72h, Selenastrum capricornutum; OECD 201); NOEC: 1000 mg/l (72h, Selenastrum capricornutum; OECD 201)*

### 12.2. Persistency and Degradability

*Biodegradation: 12.1 % (28d; OECD 302B)*

### 12.3. Bioaccumulation

*Bioconcentration factor (BCF): low (< 100); Distribution coefficient log POW: < 0.3 (OECD 117)*

### 12.4. Mobility

*No information available.*

### 12.5. Results of PBT- und vPvP Assessment

*On the basis of available data, the product does not contain any PBT or vPvB substances in percentage greater than 0.1 %.*

### 12.6. Endocrine Disrupting Properties

*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.*

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## 12.7. Other Adverse Effects

*Water hazard class:*

*1, slightly hazardous*

*Behaviour in sewage systems:*

*Further ecological effects:*

*No ecological data available.*

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

*European Waste Code (EWC):*

*Uncleaned packaging:*

*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 / 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.:*

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## 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

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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)*

*Local regulations on chemical accidents:*

*Seveso III Directive: not applicable under Directive 2012/18/EC.*

*Employment restrictions:*

*The employment restrictions for expectant and nursing mothers in accordance with the Maternity Protection Guideline are to be observed.*

*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, Registered no. 75*

*Technical instructions on air quality:*

### 15.2. Chemical Safety Assessment

*Exempted from the mandatory REACH Registration since this product is a polymer.*

### 15.3. Further Information

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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 therefore not be construed as guaranteeing specific properties.*