

# Safety Data Sheet

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



## 48420 Iron Oxide Black 306, bluish

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Revised edition: 02.07.2025

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

#### 1.1. Product Identifier

*Product Name:* Iron Oxide Black 306, bluish

*Article No.:* 48420

*UFI:* --

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

*Identified uses:*  
Coloring agent (pigment and dyes), inorganic.

*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:

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### 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

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### 3. Composition/Information on Ingredients

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### 3.1. Substance

### 3.2. Mixture

*Chemical Characterization:* Fe<sub>3</sub>O<sub>4</sub>. Pigment Black 11, C.I. 77499

*Information on Components / Hazardous Ingredients:*

Triiron tetraoxide (Fe<sub>3</sub>O<sub>4</sub>), Magnetite; REACH 100 %  
Reg. No. 01-2119457646-28-0000

CAS-Nr: 1317-61-9  
EINECS-Nr: 215-277-5  
EC-Nr:

*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.*

*If breathing is difficult call a physician.*

*Keep respiratory tract clear.*

*In case of unconsciousness place patient stable in side position for transportation.*

*After skin contact:*

*Wash off with water.*

*After eye contact:*

*Remove contact lens.*

*Rinse open eyes with plenty of water. In case of discomfort seek medical help.*

*After ingestion:*

*Rinse mouth with water. Consult a physician in case of complaints.*

*Do not induce vomiting.*

### 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, carbon dioxide (CO<sub>2</sub>), extinguishing powder, water spray.*

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*Unsuitable extinguishing media:*

*Water with full jet.*

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

*Special hazards:*

*In case of fire: formation of metal oxides.*

### 5.3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device and full protective gear.*

*Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.*

*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. Keep spectators away.*

*Ensure adequate ventilation.*

*Avoid inhalation of dust.*

### 6.2. Environmental Precautions

*Environmental precautions:*

*Prevent contamination of soils, drains and surface water.*

### 6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Clean up mechanically. Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.*

### 6.4. Reference to other Sections

*Protective clothing, see Section 8.*

*Dispose of contaminated material according to Section 13.*

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## 7. Handling and Storage

### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Wear adequate protective clothing (see para. 8).*

*Avoid contact with eyes and skin.*

*Provide good ventilation and/or exhaust at the workplace. Ensure adequate ventilation. Handle and open container with care.*

*Hygienic measures:*

*Do not eat or drink during work. Do not smoke.*

*Wash thoroughly after handling.*

*Wash contaminated clothing before reusing.*

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*Remove contaminated clothing before entering dining areas.*

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

*Storage conditions:*

*Store dry and in the original tightly sealed containers.*

*Requirements for storage areas and containers:*

*Keep container tightly closed.*

*Information on fire and explosion protection:*

*Provide adequate exhaust ventilation at places where dust is formed.*

*Storage class:*

*13; Non combustible solids (TRGS 510)*

*Further Information:*

### 7.3. Specific End Use(s)

*Further information:*

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## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*TRGS 900*

*TLV: 1.25 mg/m<sup>3</sup> air-borne fraction (general dust limit)*

*TLV: 10 mg/m<sup>3</sup> inhalable fraction (general dust limit)*

*Peak limit category II (2)*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

*Triiron tetraoxide (CAS 1317-61-9):*

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

*PNEC (Predicted No-Effect Concentration):*

*Additional Information:*

### 8.2. Exposure Controls

*Technical protective measures:*

*Ensure adequate ventilation, especially in confined areas.*

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

*Personal Protection*

*General protective measures:*

*Remove contaminated clothing. Wash hands after work.*

*Keep away from foodstuffs, beverages and feed.*

*Respiratory protection:*

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*Dust mask recommended when very dusty (with particle filter P1).  
Required in case of insufficient ventilation.*

*Hand protection:*

*Protective gloves*

*Protective glove material:*

*Eye protection:*

*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

*Form:*

*powder*

*Color:*

*black*

*Odor:*

*odorless*

*Odor threshold:*

*no information available*

*pH-Value:*

*4 - 8 (5 %)*

*Melting temperature:*

*> 1000°C (> 1832°F)*

*Boiling temperature:*

*not applicable*

*Flash point:*

*not applicable*

*Evaporation rate:*

*This product is a non-volatile solid.*

*Flammability (solid, gas):*

*not applicable*

*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:*

*4.6 kg/l (20°C)*

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<i>Solubility in water:</i>	<i>insoluble</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>no information available</i>
<i>Auto-ignition temperature:</i>	<i>not applicable</i>
<i>Decomposition temperature:</i>	<i>&gt; 80°C</i>
<i>Viscosity, dynamic:</i>	<i>not applicable</i>
<i>Explosive properties:</i>	<i>Product does not present an explosion hazard.</i>
<i>Oxidizing properties:</i>	<i>no information available</i>
<i>Bulk density:</i>	<i>600 kg/m<sup>3</sup></i>

### 9.2. Further Information

<i>Solubility in solvents:</i>	
<i>Viscosity, kinematic:</i>	
<i>Burning class:</i>	
<i>Solvent content:</i>	
<i>Solid content:</i>	
<i>Particle size:</i>	
<i>Other information:</i>	<i>No further information.</i>

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### 10. Stability and Reactivity

10.1. Reactivity	<i>No information available.</i>
10.2. Chemical Stability	<i>The product is stable.</i>
10.3. Possibility of Hazardous Reactions	<i>None if handled and stored according to specifications.</i>
10.4. Conditions to Avoid	
<i>Conditions to avoid:</i>	<i>Avoid temperatures above 80°C: product can become instable and oxidize. Under unfavourable condtions, the additionally caused heat can lead to ignition of combustible materials nearby. Therefore, do not store the product near sources of heat.</i>
<i>Thermal decomposition:</i>	
10.5. Incompatible Materials	<i>No information available.</i>

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### 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:*

*No information available*

##### *LD50, dermal:*

*No information available.*

##### *LC50, inhalation:*

*No information available.*

#### *Primary effects*

##### *Irritant effect on skin:*

*Non irritating*

##### *Irritant effect on eyes:*

*Non-irritating to eyes*

*Exposure to high ambient dust levels can cause irritation of the eyes.*

##### *Inhalation:*

*Chronic effects : Repeated or prolonged inhalation of dust can cause a chronic irritation of the respiratory tract.*

##### *Ingestion:*

*No information available*

##### *Sensitization:*

*Non sensitizing (guinea pig; OECD 406).*

##### *Mutagenicity:*

*In vitro genetic-toxicity: Ames-Test negative*

##### *Reproductive toxicity:*

*No relevant data found.*

##### *Carcinogenicity:*

*No relevant data found.*

##### *Teratogenicity:*

*No information available.*

##### *Specific target organ toxicity (STOT):*

*No relevant data found.*

##### *Aspiration hazard:*

*No risk of aspiration.*

### 11.2. Information on other Hazards

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*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.*

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### 12. Ecological Information

#### 12.1. Aquatic Toxicity

*Fish toxicity:*

*No data available.*

*Daphnia toxicity:*

*No information available.*

*Bacteria toxicity:*

*No data available.*

*Algae toxicity:*

*No information available.*

#### 12.2. Persistency and Degradability

*Methods for the evaluation of the biological degradability are not applicable for inorganic substances.*

#### 12.3. Bioaccumulation

*No information available.*

#### 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.*

#### 12.7. Other Adverse Effects

*Water hazard class:*

*Not hazardous.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*No special effects or hazards known.*

*AOX Value:*

*No data available.*

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### 13. Disposal Considerations

#### 13.1. Waste Treatment Methods

*Product:*

*If product cannot be reused or recycled, it has to be disposed of*  
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*according to current local regulations.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

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

*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.:*

#### 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

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*not applicable*

### 14. 8. Further Information

*Do not store together with foodstuffs.*

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### 15. Regulatory Information

#### 15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

*Water hazard class:*

*0, not hazardous (German Regulation, Assessment by list)*

*Local regulations on chemical accidents:*

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

*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*

*Chemical Weapons Convention (CWC), Lists of toxic chemicals and raw materials: not forbidden and/or restricted*

*Technical instructions on air quality:*

#### 15. 2. Chemical Safety Assessment

*A Chemical Safety Assessment is not necessary for this product.*

#### 15. 3. Further Information

*Regulation (EU) 2019/1021 - Persistent organic pollutants: not regulated / not applicable*

*Regulation (EC) 850/2004 - Persistent Organic Pollutants and amending Directive 79/117/EEC: not regulated / not applicable*

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

*Regulation (EC) 273/2004, On Drug Precursors, Category 3: None of the ingredients is listed.*

*Regulation (EC) No. 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors: not forbidden and/or not restricted*

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

*EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): 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 therefore not be construed as guaranteeing specific properties.*