

# Safety Data Sheet

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



## 45020 Ultramarine Blue, reddish

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Revised edition: 19.12.2022

Version: 4

Printed: 13.06.2023

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

#### 1.1. Product Identifier

*Product Name:* Ultramarine Blue, reddish

*Article No.:* 45020

*UFI:* --

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

*Identified uses:*

*Industrial application  
Coloring agent, 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](http://www.kremer-pigmente.com)

*EMail:* [info@kremer-pigmente.com](mailto: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:*

*Not applicable.*

**Other Hazards**

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2.3. *May be slightly irritating to eyes. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. May be slightly irritating to eyes. Contact with acids releases hydrogen sulfide, a highly flammable toxic gas.*

### 3. Composition/Information on Ingredients

#### 3.1. Substance

#### 3.2. Mixture

*Chemical Characterization:* Sodium-aluminium-sulfo-silicate. Pigment Blue 29, C.I. 77007

*Information on Components / Hazardous Ingredients:*

Silicic acid, aluminium sodium salt, sulfurized; REACH Reg. No. 01-2119488928-13-0002	80 - 100 %	CAS-Nr: 101357-30-6 (57455-37-5) EINECS-Nr: 309-928-3 EC-Nr:
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Kaolin	0 - 20 %	CAS-Nr: 1332-58-7 EINECS-Nr: 310-194-1 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:*

*Take affected person to fresh air.*

*Consult physician if symptoms persist.*

*After skin contact:*

*Wash with soap and rinse with plenty of water.*

*If symptoms persist, consult a physician.*

*After eye contact:*

*Rinse open eye for several minutes under running water. Should irritation continue, seek medical advice.*

*After ingestion:*

*Do not induce vomiting.*

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

*If symptoms persist, call a physician.*

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

*Symptoms:*

*Inhalation: frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.*

*Skin contact: prolonged contact with dust may cause redness, skin irritation and dry skin.*

*Eye contact: can cause mechanical irritation.*

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*Effects:*

*No further information available.*

**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.*

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

*Unsuitable extinguishing media:*

*Water spray.*

**5. 2. Special Hazards arising from the Substance or Mixture**

*Special hazards:*

*In case of fire: formation of sulfur dioxide.*

**5. 3. Advice for Firefighters**

*Protective equipment:*

*Usual measures for chemical fires.*

*Wear self-contained respiratory protective device.*

*Further information:*

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**6. Accidental Release Measures**

**6. 1. Personal Precautions, Protective Equipment and Emergency Procedures**

*Personal precautions:*

*Wear protective clothing.*

*Avoid inhalation of dust and vapors.*

*Avoid formation 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:*

*Sweep up or vacuum up spillage and collect in suitable container for disposal.*

*Avoid dust formation.*

*Clean contaminated floors and objects thoroughly while observing environmental regulations.*

**6. 4. Reference to other Sections**

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**7. Handling and Storage**

**7. 1. Precautions for Safe Handling**

*Instructions on safe handling:*

*Avoid formation and deposition of dust. Provide adequate*

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*ventilation.*

*Provide adequate ventilation.*

*Avoid inhalation, ingestion and contact with skin and eyes.*

*Hygienic measures:*

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

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

*Remove contaminated clothing before entering dining areas.*

*Wash thoroughly after handling.*

*Use appropriate skin cream to prevent drying of skin.*

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

*Storage conditions:*

*Store in tightly sealed containers in a cool and well ventilated location.*

*Requirements for storage areas and containers:*

*Electrical installation/working materials must comply with the technological safety standards.*

*Information on fire and explosion protection:*

*Avoid dust formation.*

*Storage class:*

*13; Non combustible solids (TRGS 510)*

*Further Information:*

### 7.3. Specific End Use(s)

*Further information:*

*The technical guidelines for the application of this product/mixture should be followed.*

## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*none known*

*Parameters to be controlled:*

*VME (FR): 5 mg/m<sup>3</sup> airborne fraction*

*VME (FR): 10 mg/m<sup>3</sup> inhalable fraction*

*Derived No-Effect Level (DNEL):*

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

*0.25 mg/kg bw/d (consumer, swallowing/skin contact, long-term exposition - systemic effects)*

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

*Predicted No-Effect Concentration (PNEC):*

*Fresh water: 0.52 mg/l*

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*Sea water: 0.052 mg/l*

*Additional Information:*

### 8.2. Exposure Controls

*Technical protective measures:*

*Provide adequate ventilation.*

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

*Required in case of insufficient ventilation.*

*Hand protection:*

*Protective gloves (EN 374)*

*Protective glove material:*

*Eye protection:*

*Safety glasses (EN 166)*

*Body protection:*

*Protective clothing.*

*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

*Form: powder*

*Color: blue*

*Odor: odorless*

*Odor threshold: no information available*

*pH-Value: 7 - 9 (10 %)*

*Melting temperature: not available*

*Boiling temperature: not available*

*Flash point: not flammable*

*Evaporation rate: not applicable*

*Flammability (solid, gas): not flammable*

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*Upper explosion limit:*

*no information available*

*Lower explosion limit:*

*no information available*

*Vapor pressure:*

*not applicable*

*Vapor density:*

*No information available.*

*Density:*

*2.35 g/m<sup>3</sup>*

*Solubility in water:*

*insoluble*

*Auto-ignition temperature:*

*not applicable*

*Decomposition temperature:*

*> 400°C (750°C)*

*Viscosity, dynamic:*

*not applicable*

*Explosive properties:*

*Not expected to form explosive dust-air mixtures.*

*Oxidizing properties:*

*no information available*

*Bulk density:*

*not determined*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic:*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*0.7 - 3.0 µm*

*Other information:*

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## 10. Stability and Reactivity

### 10.1. Reactivity

*Loss of sulphur above 400°C.*

### 10.2. Chemical Stability

*Stable at room temperature.*

### 10.3. Possibility of Hazardous Reactions

*At temperatures above 400°C / 750°F in the presence of air an exothermic reaction can occur with the liberation of sulphur dioxide (SO<sub>2</sub>) gas.*

*Reacts with acids: development of hydrogen sulfide.*

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### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Protect from heat.*

*Thermal decomposition:*

*> 400°C*

### 10.5. Incompatible Materials

*Acids*

### 10.6. Hazardous Decomposition Products

*Hydrogen sulfide in case of contact with strong acids.  
Sulphur dioxide in case of fire.*

### 10.7. Further Information

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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: > 10000 mg/kg (rat)*

*LD50, dermal:*

*No information available.*

*LC50, inhalation:*

*No information available.*

*Primary effects*

*Irritant effect on skin:*

*Non irritating*

*Irritant effect on eyes:*

*No information available.*

*Inhalation:*

*No information available.*

*Ingestion:*

*No information available*

*Sensitization:*

*No sensitizing effects known.*

*Mutagenicity:*

*Not mutagenic.*

*Reproductive toxicity:*

*No relevant data found.*

*Carcinogenicity:*

*No relevant data found.*

*Teratogenicity:*

*No information available.*

*Specific target organ toxicity (STOT):*

*No relevant data found.*

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*Aspiration hazard:*

*No information available.*

### 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.*

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## 12. Ecological Information

### 12.1. Aquatic Toxicity

*No toxicity expected.*

*Fish toxicity:*

*Daphnia toxicity:*

*Bacteria toxicity:*

*Algae toxicity:*

### 12.2. Persistency and Degradability

*Not readily biodegradable.*

### 12.3. Bioaccumulation

*Low bioaccumulation due to the low solubility of the product.*

### 12.4. Mobility

*No information available.*

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

*This product is neither a PBT or vPvB substance nor does it contain a PBT or vPvB substance.*

### 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:*

*Not considered to be environmentally harmful.*

*AOX Value:*

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## 13. Disposal Considerations

### 13.1. Waste Treatment Methods

*Product:*

*Dispose of according to official national and local regulations.*

*European Waste Code (EWC):*

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*Uncleaned packaging:*

*Contaminated packaging must be disposed like the substance.*

*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

*none known*

#### 14.7. Maritime Transport in Bulk according to IMO Instruments

*not applicable*

#### 14.8. Further Information

*Do not transport together with acids.*

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### 15. Regulatory Information

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

*Water hazard class:*

*0, not hazardous (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:*

*Keep away from acids.*

*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), AIIIC (AUS), DSL (CA), ENCS (JP), KECI (KR),  
PICCS (PH), NZIoC (NZ), IECSC (CN), TSCI (TW)*

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

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

*EU Directive 2010/75/EU, VOC content: 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.*