

Safety Data Sheet

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



45010 Ultramarine Blue, dark

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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, dark

Article No.: 45010

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

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:

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.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Use extinguishing media for surrounding fire.

Foam, carbon dioxide (CO₂), 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:

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

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): 10 mg/m³ inhalable fraction

VME (FR): 5 mg/m³ airborne fraction

Derived No-Effect Level (DNEL):

3.53 mg/m³ (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.

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/m³

Solubility in water:

insoluble

Auto-ignition temperature:

not applicable

Decomposition temperature:

> 400°C (750°F)

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:

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 (SO₂) 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

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.

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:

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.:

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.

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

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.