

Safety Data Sheet

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



45080 Ultramarine Blue, light

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Revised edition: 15.04.2021

Version: 3

Printed: 09.05.2023

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

1.1. Product Identifier

Product Name: Ultramarine Blue, light

Article No.: 45080

UFI:

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

Identified uses:
Industrial application

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:

Signal word:

Hazard designation:

Safety designation:

Hazardous components for labelling:

Not applicable.

2.3. Other Hazards

Like with all mineral powders, long-term contact can cause

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*respiratory problems.
Contact with acids releases hydrogen sulfide, an easily flammable
and very 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	50 - 65 %	CAS-Nr: 101357-30-6 (57455-37-5) EINECS-Nr: 309-928-3 EC-Nr:
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Calcium carbonate (CaCO ₃)	35 - 50 %	CAS-Nr: 1317-65-3 EINECS-Nr: 215-279-6 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 eyes with water.

Seek medical attention if irritation persists.

After ingestion:

Do not induce vomiting.

Rinse mouth with water and drink plenty of water.

If symptoms persist, call a physician.

Never give anything by mouth to an unconscious person.

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 skin irritation
and dry skin.*

Eye contact: may cause temporary eye irritation.

Effects:

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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.

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 sulfur dioxide.

5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear positive pressure self-contained breathing apparatus (SCBA).

Further information:

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Wear protective clothing.

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:

Take up mechanically and collect in suitable containers for disposal.

6.4. Reference to other Sections

Protective clothing, see Section 8.

Dispose of contaminated material according to Section 13.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Avoid formation and deposition of dust. Provide adequate ventilation.

Provide adequate ventilation.

Hygienic measures:

Keep away from foodstuffs and drinks. Do not eat, drink or smoke

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*during work. Wash hands before breaks and at the end of work.
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 cool and well ventilated location.

Requirements for storage areas and containers:

No special measures necessary.

Information on fire and explosion protection:

*Ground/bond container and receiving equipment.
Do not store together with: acids and alkalis.*

Storage class:

Further Information:

7.3. Specific End Use(s)

Further information:

No information available.

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/m³ airborne fraction
VME (FR): 10 mg/m³ inhalable fraction*

Derived No-Effect Level (DNEL):

No values available.

Predicted No-Effect Concentration (PNEC):

No values available.

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Provide adequate ventilation.

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:

Dust mask recommended when very dusty (with particle filter FFP1).

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Hand protection:

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

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% H₂O)

Melting temperature:

not available

Boiling temperature:

not available

Flash point:

not flammable

Evaporation rate:

not applicable

Flammability (solid, gas):

not highly flammable

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/cm³

Solubility in water:

insoluble

Auto-ignition temperature:

not applicable

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Decomposition temperature: > 400°C (750°F)

Viscosity, dynamic:
not applicable

Explosive properties:
Product does not present an explosion hazard.

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:

Other information:

10. Stability and Reactivity

10.1. Reactivity

Loss of sulphur above 400°C.

10.2. Chemical Stability

This product is extremely stable up to 350°C.

10.3. Possibility of Hazardous Reactions

Reacts with acids: development of hydrogen sulfide.

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

No information available.

Acute Toxicity

LD50, oral:

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LD50, dermal:

LC50, inhalation:

Primary effects

Irritant effect on skin:

Non irritating (rabbit)

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.

Aspiration hazard

11.2. Information on other Hazards

No further information available.

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

LC50: > 32000 mg/kg (96h)

Daphnia toxicity:

EC50: > 90 % (24h)

Bacteria toxicity:

no information available

Algae toxicity:

No information available.

12.2. Persistency and Degradability

No information available.

12.3. Bioaccumulation

No bioaccumulation.

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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

No data available.

12. 7. Other Adverse Effects

Water hazard class:

Not hazardous.

Behaviour in sewage systems:

Further ecological effects:

Ultramarines are synthetic products, similar to the natural rock Lapislazuli. They are extremely stable, except in acid environment which releases sulphur hydrogen.

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. Ultramarines cannot be disposed of were contact with acids is possible.

European Waste Code (EWC):

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:

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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

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

Water hazard class:

0, not hazardous (German Regulation)

Local regulations on chemical accidents:

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

VOC Content (w/w): 0 %

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.