

deffner & Johann

Produkte für RESTAURIERUNG | DENKMALPFLEGE | ART HANDLING – SEIT 1880.

SICHERHEITSDATENBLATT

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Trade name: Ultramarine Blue dark

Print date: 03.11.23

Version: 5 / DE

Date revised: 14.06.2023

Replaces Version: 4 / DE

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Ultramarine Blue dark

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

Colourant

1.3. Details of the supplier of the safety data sheet

Address

Deffner & Johann GmbH
Mühlackerstraße 13
D-97520 Röthlein
Telefon-Nr.: + 49 (0) 9723 9350-0
Fax-Nr.: + 49 (0) 9723 9350-25
E-Mail-Adresse: info@deffner-johann.de

1.4. Emergency telephone number

+49 (0) 9723 9350-0 (Mo - Fr: 7.30 - 15.00 Uhr)

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Voluntary product information following the Safety Data Sheet format
This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

The product does not require a hazard warning label in accordance with Regulation (EC) No 1272/2008.

2.3. Other hazards

Dust loading. Contact with acids liberates extremely flammable toxic gas.

This substance/mixture does not contain components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher. This substance/mixture does not contain components classified as very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher. The substance/mixture does not contain components considered to have endocrine disrupting properties for humans according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher. The substance/mixture does not contain components considered to have endocrine disrupting properties to non-target organisms according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Pigment Blue 29: CAS-No 101357-30-6, EG-No 309-928-3, REACH Reg.-No 01-2119488928-13-XXXX (80 - 100 %);
Clay: CAS-No 1332-58-7, EG-No 310-194-1 (0 - 20 %)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of persistent symptoms consult doctor.

After inhalation

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

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After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

Rinse mouth thoroughly with water. Call in a physician immediately and show him the Safety Data Sheet.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Foam, Carbon dioxide, Dry chemical extinguisher

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Sulphur oxides; Irritant and harmful combustion products.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear full protective suit.

Other information

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Do not inhale dust. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol. High risk of slipping due to leakage/spillage of product. Use personal protective clothing. Refer to protective measures listed in Sections 7 and 8. Remove persons to safety.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water.

6.3. Methods and material for containment and cleaning up

Avoid raising dust. Pick up mechanically. When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid the formation and deposition of dust. Provide exhaust ventilation if dust is formed. Ensure adequate ventilation. Handle and open container with care. Provide suitable exhaust ventilation at the processing machines. Use breathing apparatus when transferring large quantities without exhaust ventilation facilities. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Observe the usual precautions for handling chemicals.

Advice on protection against fire and explosion

Take action to prevent static discharges. Earthing necessary during loading operations. Keep away from sources of ignition - No smoking.

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7.2. Conditions for safe storage, including any incompatibilities

Hints on storage assembly

Do not store together with foodstuffs. Keep away from flammable substances. Do not store together with: Acids, Alkalis

Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from direct sunlight. Protect from extreme heat and cold.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

The national general dust limit must be observed.
TRGS 900: Observe the general dust threshold.

Derived No/Minimal Effect Levels (DNEL/DMEL)

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 3,53 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-----------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 0,5 | mg/kg bw/day |

| | | |
|----------------------|--------------------------------|-----------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | oral | |
| Mode of action | Systemic effects | |
| Concentration | 0,25 | mg/kg bw/day |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 0,87 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-----------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 0,25 | mg/kg bw/day |

Source: Manufacturer's data

Predicted No Effect Concentration (PNEC)

| | | |
|---------------|------------|------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,52 | mg/l |

| | | |
|---------------|---------------------|------|
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 0,052 | mg/l |
| Source | Manufacturer's data | |

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8.2. Exposure controls

General protective and hygiene measures

Do not inhale dust/fumes/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Use barrier skin cream. Observe the usual precautions for handling chemicals. Take off immediately all contaminated clothing.

Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Particle filter P2; Use breathing apparatus in dust-laden atmosphere.

Hand protection

Protective gloves
Observe the information of the glove manufacturers on permeability and breakthrough times and other workplace requirements.

Eye protection

Safety glasses with side protection shield

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state | Powder |
| Colour | blue |
| Odour | odourless |
| Melting point | |
| Remarks | Not applicable |
| Boiling point or initial boiling point and boiling range | |
| Remarks | Not applicable |
| Flammability | |
| Remarks | Not ignitable |
| Upper and lower explosive limits | |
| Remarks | Not applicable |
| Flash point | |
| Remarks | Not applicable |
| Decomposition temperature | |
| Value | >= 400 °C |
| Remarks | Under conditions of air and temperatures above 400 °C an exothermic reaction can be happened and sulphur oxides can be liberated. |
| pH value | |
| Value | 7 to 9 |
| Concentration/H ₂ O | 10 % |
| Remarks | Suspension in water |
| Source | Manufacturer's data |
| Viscosity | |
| Remarks | Not applicable |
| Solubility(ies) | |
| Remarks | not determined |
| Vapour pressure | |
| Remarks | Not applicable |
| Density and/or relative density | |
| Value | appr. 2,35 g/cm ³ |
| Source | Manufacturer's data |
| Relative vapour density | |
| Remarks | Not applicable |
| Particle characteristics | |
| Particle size | 0,7 to 3,0 µm |
| Method | Laser light diffraction with dry dispersion in air. |
| Source | Manufacturer's data |

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9.2. Other information

Odour threshold

Remarks Not applicable

Evaporation rate

Remarks Not applicable

Evaporation rate (ether = 1) :

Remarks Not applicable

Solubility in water

Remarks insoluble
Source Manufacturer's data

Explosive properties

evaluation Not expected to form explosive dust-air mixtures.

Other information

None known

SECTION 10: Stability and reactivity

10.1. Reactivity

With acids hydrogen sulphide is produced.

10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions

When used as recommended, no hazardous reactions are expected.

10.4. Conditions to avoid

temperatures above 350 °C

Decomposition temperature

Value \geq 400 °C
Remarks Under conditions of air and temperatures above 400 °C an exothermic reaction can be happened and sulphur oxides can be liberated.

10.5. Incompatible materials

With acids hydrogen sulphide is produced.

10.6. Hazardous decomposition products

Hydrogen sulfide (H₂S), sulphurous oxides (SO_x)

SECTION 11: Toxicological information ***

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity ***

Species rat
LD50 > 10000 mg/kg
Source Manufacturer's data
Remarks Based on available data, the classification criteria are not met.

Acute dermal toxicity

Remarks Based on available data, the classification criteria are not met.

Acute inhalational toxicity

Remarks Based on available data, the classification criteria are not met.

Skin corrosion/irritation

evaluation non-irritant
Remarks Based on available data, the classification criteria are not met.
Source Manufacturer's data

Serious eye damage/irritation

Remarks Based on available data, the classification criteria are not met.

Sensitization

Remarks Based on available data, the classification criteria are not met.

Subacute, subchronic, chronic toxicity

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Remarks not determined
Remarks Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Remarks Frequent persistent contact with the skin can cause skin irritation.
Remarks Like any foreign body, particles (dust) can cause mechanical irritation.

Mutagenicity

Remarks Based on available data, the classification criteria are not met.

Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)

Single exposure

Remarks Based on available data, the classification criteria are not met.

Repeated exposure

Remarks Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties with respect to humans

The substance/mixture does not contain components considered to have endocrine disrupting properties for humans according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other information

By appropriate use of the product no health damage is known.

SECTION 12: Ecological information

12.1. Toxicity

General information

No data available

12.2. Persistence and degradability

Biodegradability

evaluation not readily degradable

12.3. Bioaccumulative potential

General information

The product has not been tested. Because of the product's consistency and lack of solubility in water bioavailability is not likely.

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This substance/mixture does not contain components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher.

This substance/mixture does not contain components classified as very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

The substance/mixture does not contain components considered to have endocrine disrupting properties to non-target organisms according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

General information

not determined

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General information / ecology

Do not discharge product unmonitored into the environment. Should not get into contact with acids, because of release of hydrogen sulphide.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities.

Should not get into contact with acids, because of release of hydrogen sulphide.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

Uncontaminated packaging may be taken for recycling.

SECTION 14: Transport information

Land transport ADR/RID

The product does not constitute a hazardous substance in land transport.

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (Germany)

Water Hazard Class (Germany) Not water hazardous

15.2. Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either complete or not applicable.

SECTION 16: Other information

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route

AGW: Arbeitsplatzgrenzwert

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances that are hazardous to water)

BGW: Biologischer Grenzwert

CAS: Chemical Abstracts Service

DNEL: Derived no effect level

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

GGVSee: Gefahrgutverordnung See

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

LC: Lethal concentration

LD: Lethal dose

MAK: Maximale Arbeitsplatz-Konzentration

NOEC: No observable effect concentration

NOEL: No observable effect level

OECD: Organisation for Economic Co-operation and Development

OEL: Occupational exposure limit

PBT: Persistent, Bioaccumulative and Toxic

PNEC: Predicted no effect concentration

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses

TRGS: Technische Regeln für Gefahrstoffe

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VDI: Verein Deutscher Ingenieure
VLEP: Valeurs Limites d'exposition Professionnelle
vPvB: Very persistent and very bioaccumulative
WGK: Wassergefährdungsklasse (water hazard class)

Supplemental information

These data is based on our present knowledge and experience respectively supplier-information. This safety data sheet describes the product in regard to the requirements of safety. The information does not represent an assurance for certain properties. Existing laws and regulations are to be observed by the recipient of our products in own responsibility. It is the responsibility of the user, to determine if the product is suitable for the deliberate operational area and the respective intended purpose. A liability for damages in connection with the use of this information is excluded. Relevant changes compared with the previous version of the safety data sheet are marked with: ***