

Trade name: Gerstaecker Artists Pigments, 200g Berlin Blue

Print date: 20.07.23

Version: 10 / DE

Date revised: 15.02.2023

Replaces Version: 9 / DE

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

1.1. Product identifier

71132 Gerstaecker Artists Pigments, 200g Berlin Blue

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

Johannes Gerstaecker Verlag GmbH

Wecostraße 4

53783 Eitorf

Telephone no.

+49 2243 / 889-0

Information provided by / telephone

+49 2243 / 889-95 Only during office hours (Monday - Friday): 8:00 a.m. - 5:00 p.m.

1.4. Emergency telephone number

GIZ-Nord, Göttingen +49 551/ 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Aquatic Chronic 4 H413

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard statements

H413

May cause long lasting harmful effects to aquatic life.

Precautionary statements

P273

Avoid release to the environment.

P501

Dispose of contents/container according to current regulations for waste.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

Supplemental information

EUH032

Contact with acids liberates very toxic gas.

2.3. Other hazards

Dust loading. Possible dust explosion hazard.

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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

pigment mixture, inorganic construction

Hazardous ingredients

Iron (III) hexacyanoferrate (II)

CAS No.

25869-00-5

EINECS no.

247-304-1

Registration no.

01-2119555296-32-XXXX

Concentration

>=

25

<

50

%

Classification (Regulation (EC) No. 1272/2008)

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Aquatic Chronic 4

H413
EUH032**Further ingredients****Calcium fluoride**

CAS No.		14542-23-5			
Concentration	>=	1	<	10	%
Advice:	[5]				

Note

[5] Substance with EU occupational exposure limits

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.

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

Cyanosis, The following symptoms may occur: Headache, Dizziness, Nausea, Convulsions, Unconsciousness, Shortness of breath, Heart beat disturbance

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, Carbon dioxide, Dry powder

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixtureIn the event of fire the following can be released: Sulphur oxides; Hydrogen cyanide (HCN); Cyanides; Carbon monoxide (CO); Carbon dioxide (CO₂); Ammonia (NH₃); Nitrous gases (NO_x); 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. Use breathing apparatus if exposed to vapours/dust/aerosol. Ensure adequate

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ventilation. 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

Avoid dust formation. Take action to prevent static discharges. Earthing necessary during loading operations. Keep away from sources of heat and ignition. Do not smoke.

7.2. Conditions for safe storage, including any incompatibilities

Hints on storage assembly

Do not store together with foodstuffs. Do not store together with: Acids

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

Exposure limit values

Calcium fluoride

List	2000/39/EC
Type	Indicative Occupational Exposure Limit (EU)
Value	2,5 mg/m ³
Remarks:	Fluorides, inorganic

Calcium fluoride

List	TRGS 900
Value	1 mg/m ³
Maximum limit value:	4(II); Skin resorption / sensibilisation: H; Pregnancy group: Y; Status: 12/2007; Remarks: EU, DFG

Quartz

Type	MAK
Value	0,05 mg/m ³
Maximum limit value:	8; Status: DGUV 2017; Remarks: Alveolengängige Fraktion, TRGS 559, TRGS-Beurteilungsmaßstab

Biological limit values

Calcium fluoride

List	TRGS 903
Value	7,0 mg/g creatinine

Parameter	Fluoride
Testing material	Urine (U)
Test date	End of exposure or end of shift (b)

Calcium fluoride

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List	TRGS 903
Value	4,0 mg/g creatinine
Parameter	Fluoride
Testing material	Urine (U)
Test date	Before next shift (d)

Other information

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

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	see tradename
Odour	characteristic
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined
Boiling point or initial boiling point and boiling range	
Remarks	not determined
Flammability	
not determined	
Upper and lower explosive limits	
Remarks	not determined
Flash point	
Remarks	Not applicable
Ignition temperature	
Remarks	not determined
Decomposition temperature	
Value	> 140 °C
pH value	
Remarks	not determined
Viscosity	
Remarks	not determined
Solubility(ies)	
Remarks	not determined
Partition coefficient n-octanol/water (log value)	
Remarks	not determined
Vapour pressure	
Remarks	not determined

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Density and/or relative density

Remarks not determined

Relative vapour density

Remarks not determined

Particle characteristics

Remarks not determined

9.2. Other information

Odour threshold

Remarks not determined

Evaporation rate (ether = 1) :

Remarks not determined

Solubility in water

Remarks not determined

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

Other information

None known

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactions with acids, alkalies and oxidizing agents.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

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

Decomposition temperature

Value > 140 °C

10.5. Incompatible materials

Reducing agents, Acids, Oxidising agents, Reactions with alkalies.

10.6. Hazardous decomposition products

Barium oxides, sulphurous oxides (SOx), Nitrous gases, Carbon monoxide and carbon dioxide, Ammonia, Hydrocyanic acid

SECTION 11: Toxicological information

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

Acute oral toxicity

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

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

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

No data available

Other information

No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity

General information

not determined

12.2. Persistence and degradability

General information

not determined

Biodegradability

Remarks not determined

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

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

No data available

12.7. Other adverse effects

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General information

not determined

General information / ecology

Ecological data are not available. Do not discharge product unmonitored into the environment.

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.

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)	WGK 1
Remarks	Derivation of WGK according to Annex 1 No. 5.2 AwSV

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

EUH032	Contact with acids liberates very toxic gas.
H413	May cause long lasting harmful effects to aquatic life.

CLP categories listed in Chapter 3

Aquatic Chronic 4	Hazardous to the aquatic environment, chronic, Category 4
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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

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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
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: ***