

SAFETY DATA SHEET

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Trade name: **Echtblau Dunkel**

Print date: 02.03.20

Version: 5 / DE

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Echtblau Dunkel

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/preparation**

Colourants for artists, conservators, building- and painter-handcraft

1.3. Details of the supplier of the safety data sheet**Adresse:**

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1.4 Notfall-Nummer: +49 (0) 9723 9350-0 (Mo. – Fr. 7:30 – 15:00 Uhr)**SECTION 2: Hazards identification *******2.1. Classification of the substance or mixture**

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)****Supplemental information *****

EUH210

Safety data sheet available on request.

2.3. Other hazards

Dust loading. Possible dust explosion hazard.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

colourant mixture, inorganic/organic construction

Further ingredients**Calcium fluoride**

CAS No.

14542-23-5

Concentration

>=

1

<

10

%

[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

Trade name: **Echtblau Dunkel**Print date: **02.03.20**Version: **5 / DE**Date revised: **20.02.2020**Replaces Version: **4 / DE**

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

Non suitable extinguishing media

Full water jet, Carbon dioxide

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Sulphur oxides; Carbon monoxide (CO); Carbon dioxide (CO₂); Nitrogen oxides (NO_x); Hydrogen halide; 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 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. Dust can form an explosive mixture with air. Do not smoke.

Trade name: **Echtblau Dunkel**

Print date: 02.03.20

Version: 5 / DE

Date revised: 20.02.2020

Replaces Version: 4 / DE

7.2. Conditions for safe storage, including any incompatibilities**Hints on storage assembly**

Do not store together with foodstuffs. Do not store together with: Oxidising agents, 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.

Calcium fluoride

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

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 protectionProtective 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

Trade name: **Echtblau Dunkel**

Print date: 02.03.20

Version: 5 / DE

Date revised: 20.02.2020

Replaces Version: 4 / DE

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	Powder
Colour	see tradename
Odour	characteristic

Odour threshold	
Remarks	not determined

pH value	
Remarks	not determined

Melting point	
Remarks	not determined

Freezing point	
Remarks	not determined

Initial boiling point and boiling range	
Remarks	not determined

Flash point	
Remarks	Not applicable

Evaporation rate (ether = 1) :	
Remarks	not determined

Flammability (solid, gas)	
Remarks	not determined

Upper/lower flammability or explosive limits	
Remarks	not determined

Vapour pressure	
Remarks	not determined

Vapour density	
Remarks	not determined

Density	
Remarks	not determined

Solubility in water	
Remarks	not determined

Solubility(ies)	
Remarks	not determined

Partition coefficient: n-octanol/water	
Remarks	not determined

Ignition temperature	
Remarks	not determined

Decomposition temperature	
Remarks	not determined

Viscosity	
Remarks	not determined

Explosive properties	
evaluation	not determined

Oxidising properties	
Remarks	not determined

9.2. Other information

Other information	
Remarks	None known

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

Trade name: **Echtblau Dunkel**

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Replaces Version: 4 / DE

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Static charges. Dust can form an explosive mixture with air. Avoid all sources of ignition: heat, sparks, open flame.

Decomposition temperature

Remarks not determined

10.5. Incompatible materials

Reactions with strong oxidising agents. Reactions with strong alkalies. Reducing agents, Acids

10.6. Hazardous decomposition productsBarium oxides, sulphurous oxides (SO_x), nitrous oxides (NO_x), Chlorine compounds**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**

Remarks not determined

Acute dermal toxicity

Remarks not determined

Acute inhalational toxicity

Remarks not determined

Skin corrosion/irritation

Remarks not determined

Remarks Frequent persistent contact with the skin can cause skin irritation.

Serious eye damage/irritation

Remarks not determined

Remarks Eye contact with the product may lead to irritation.

Sensitization

Remarks not determined

Subacute, subchronic, chronic toxicity

Remarks not determined

Remarks Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Mutagenicity

Remarks not determined

Reproductive toxicity

Remarks not determined

Carcinogenicity

Remarks not determined

Specific Target Organ Toxicity (STOT)

Remarks not determined

Other information

No toxicological data are available.

This colour includes titanium dioxide. According to IARC this pigment is classified in group 2B (titanium dioxide is possibly carcinogenic to humans).

Prolonged exposure to dust concentrations exceeding the exposure limit may result in impairment of the self-cleaning capacity of the lungs and cause adverse lung effects.

SECTION 12: Ecological information**12.1. Toxicity****General information**

not determined

12.2. Persistence and degradability**General information**

Trade name: **Echtblau Dunkel**

Print date: 02.03.20

Version: 5 / DE

Date revised: 20.02.2020

Replaces Version: 4 / DE

not determined

Biodegradability

Remarks not determined

12.3. Bioaccumulative potential**General information**

not determined

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil**General information**

not determined

12.5. Results of PBT and vPvB assessment**General information**

not determined

12.6. Other adverse effects**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 packagingPackaging 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
Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV**Other regulations, restrictions and prohibition regulations**

VDI 2263 "Dust fires and explosions; Danger, Evaluation, Protection measures".

15.2. Chemical safety assessment

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

SECTION 16: Other information**Abbreviations**ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route
AGW: Arbeitsplatzgrenzwert

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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

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 a 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: ***