*



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.09.2017

Version number 1

Revision: 15.09.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking
· Version number 2.0
· 1.1. Product identifier
• Trade name <u>Kupfer(II)-oxid schwarz</u>
 Article number: 1600_331002 CAS Number: 1317-38-0 EC number: 215-269-1 Registration number 01-2119502447-44 1.2. Relevant determined uses of the substance or mixture; and uses advised against: Sector of Use Industrial use Additive for the manufacture of glass Electro galvanizing Absorbent Paints and coatings Relevant determined uses of the substance/preparation: Chemical product for serveral applications. Industrial use Absorbent
Adhesives Catalyst Fertiliser Lubricant
 1.3. Details of the supplier of the safety data sheet Manufacturer/Supplier: Lomberg GmbH Buschhausener Straße 153, 46049 Oberhausen - Germany Telefon: 0049-208-58004-0; Telefax: 0049-208-58004-38 E-Mail: info@lomberg.org
 Informing department: Product Safety Department 1.4. Emergency telephone number: Emergency Call: Poison Control Center Mainz - 24 hour emergency service - Tel: +49 (0) 6131/19240
SECTION 2: Hazards identification
 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Aquatic Acute 1 H400 (M=100) Very toxic to aquatic life. Aquatic Chronic 1 H410 (M=1) Very toxic to aquatic life with long lasting effects.
 • 2.2. Label elements • Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation. (Contd. on page 2)

Safety data sheet according to 1907/2006/EC, Article 31



Printing date 15.09.2017

Version number 1

Revision: 15.09.2017

Trade name Kupfer(II)-oxid schwarz

(Contd. of page 1) · Hazard pictograms · Signal word Warning · Hazard statements H410 Very toxic to aquatic life with long lasting effects. · Precautionary statements P273 Avoid release to the environment. P391 Collect spillage. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · 2.3. Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable. **SECTION 3: Composition/information on ingredients** · 3.1. Chemical characterisation: Substances · CAS No. Designation: 1317-38-0 copper oxide • Identification number(s): · EC number: 215-269-1 **SECTION 4: First aid measures** · 4.1. Description of first aid measures · General information Personal protection for the First Aider. Instantly remove any clothing soiled by the product. · After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness bring patient into stable side position for transport. · After skin contact Wash immediately with soap and water. If skin irritation continues, consult a doctor. · After eye contact Remove contact lenses, if present and easy to do. Rinse opened eye for several (at least 10) minutes under running water. Then consult doctor. Use eye protection. · After swallowing Do not induce vomiting. Call a doctor immediately. · Information for doctor · 4.2. Most important symptoms and effects, both acute and delayed No further relevant information available. (Contd. on page 3) GB Safety data sheet according to 1907/2006/EC, Article 31



Printing date 15.09.2017

Version number 1

Revision: 15.09.2017

(Contd. of page 2)

Trade name Kupfer(II)-oxid schwarz

• **4.3. Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1. Extinguishing media
- · Suitable extinguishing agents
- CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. • 5.2. Special hazards arising from the substance or mixture

During heating or in case of fire dangerous gases / vapors. By burning produce dense smoke.

metaloxide

Carbon monoxide (CO) and carbon dioxide (CO2)

Do not inhale explosion and combustion gases.

The combustion produces a thick smoke.

- · 5.3. Advice for firefighters
- · Protective equipment: Wear self contained breathing apparatus.
- · Additional information

Collect contaminated fire fighting water separately. It must not enter drains. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Wear protective equipment (see secction 8). Keep unprotected persons away. Avoid breathing fume/ gas/ mist/ vapours/ aerosols. Avoid breathing dusts.
6.2. Environmental precautions: Do not allow to enter into drains/waters or in the soil. Local authorities should be advised if significant spillage cannot be contained. Keep dirty washing water for appropriate disposal.
6.3. Methods and material for containment and cleaning up: Take up dust-free and set down dust-free. Send for recovery or disposal in suitable containers. Wash with plenty of water.
6.4. Reference to other sections See Section 7 for information on safe handling

See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.

SECTION 7: Handling and storage

· Handling

• **7.1. Precautions for safe handling** Avoid contact with skin and eyes.

Avoid causing and depositing of dust.

Thorough dedusting.

Do not use empty container before they have been cleaned.

Contaminated clothing must be changed before entering dining rooms

(Contd. on page 4)

Safety data sheet according to 1907/2006/EC, Article 31



Printing date 15.09.2017

Version number 1

Revision: 15.09.2017

Trade name Kupfer(II)-oxid schwarz

• Information about protection against explosions and fires: The product is not flammable

(Contd. of page 3)

• 7.2. Conditions for safe storage, including any incompatibilities

· Storage

- · Requirements to be met by storerooms and containers:
- Keep container tightly closed in a cool, well-ventilated place.
- Information about storage in one common storage facility: Keep away from incompatible materials.
- Further information about storage conditions: Keep container tightly sealed.
- 7.3. Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· 8.1. Control parameters

• Components with critical values that require monitoring at the workplace: Not required.

· PNECs

PNEC aqua (fresh water) 0.0078 mg/l (/)

• Additional information: The lists that were valid during the compilation were used as basis.

- · 8.2. Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures
- The usual precautionary measures should be adhered to in handling the chemicals.

Keep away from foodstuffs, beverages and food.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

Do not inhale dust / smoke / mist.

Ensure adequate ventilation at machinery where dust can be generated.

When using do not eat, drink or smoke.

Instantly remove any soiled and impregnated garments.

- · Protection of hands: Not required.
- · Material of gloves not applicable
- · Penetration time of glove material Not applicable.
- Eye protection: Tightly sealed safety glasses (DIN EN 166)
- · Body protection:
- Protective work clothing.

Protective clothing should be selected in their place, depending on concentration and quantity of the hazardous substances. The chemical resistance of protective clothing should be clarified with their suppliers.

9.1. Information on basic physical and chemical properties General Information			
Appearance:			
Form:	Powder		
Colour:	Black		
Smell:	Odourless		
Odour threshold:	Not applicable.		
pH-value:	Not determined.		

Page 5/9

Safety data sheet according to 1907/2006/EC, Article 31



Printing date 15.09.2017

Version number 1

Revision: 15.09.2017

Trade name Kupfer(II)-oxid schwarz

	(Contd	. of pa
Change in condition		
Melting point/freezing point:	1326°C	
Initial boiling point and boiling range:	Not determined.	
Flash point:	Not applicable.	
Inflammability (solid, gaseous)	Product is not inflammable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Self-inflammability:	Not determined.	
Explosive properties:	Product is not explosive.	
Critical values for explosion:		
Lower:	Not applicable	
Upper:	Not applicable	
Oxidising properties	No information available.	
Steam pressure:	Not determined.	
Density at 20°C	6.315g/cm ³	
Settled apparent density	Not determined.	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water at 20°C:	0,000394g/l	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
dynamic:	Not determined.	
9.2. Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

- 10.1. Reactivity The substance is stable under normal conditions of use.
- · 10.2. Chemical stability Stable under recommended storage conditions.
- \cdot 10.3. Possibility of hazardous reactions No dangerous reactions known
- 10.4. Conditions to avoid No further relevant information available.
- **10.5. Incompatible materials:** Acids. Oxidising agents.

Metals in powder form.

- · 10.6. Hazardous decomposition products:
- In case of fire: see section 5

Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

· 11.1. Information on toxicological effects

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

(Contd. on page 6)

GB

Safety data sheet according to 1907/2006/EC, Article 31



Printing date 15.09.2017

Version number 1

Revision: 15.09.2017

Trade name Kupfer(II)-oxid schwarz

(Contd. of page 5)

· LD/LC50 values that are relevant for classification:

Oral LD50. >2,500 mg/kg (rat)

Dermal LD50. >2,000 *mg/kg* (*rat*)

- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- after inhalation: irritating
- · Sensitisation: Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1. Toxicity

• Aquatic toxicity:

EC50 (48h) 0.0926 mg/l (Daphnia magna (großer Wasserfloh))

LC50 (96h) 0.81 mg/l (Cyprinus carpio)

- · 12.2. Persistence and degradability Not degradable.
- · Behaviour in environmental systems:
- · 12.3. Bioaccumulative potential No bioaccumulation.
- 12.4. Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- Remark: Very toxic for fish
- Additional ecological information:
- · General notes:
- Water hazard class 1 (Assessment by list): slightly hazardous for water.
- The material is harmful for the environment.
- Very toxic for aquatic organisms

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

- · 12.5. Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6. Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1. Waste treatment methods

- · Recommendation
- Check material recycling.
- Must be specially treated under adherence to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)

GB -

Page 7/9

Safety data sheet according to 1907/2006/EC, Article 31



Printing date 15.09.2017

Version number 1

Revision: 15.09.2017

Trade name Kupfer(II)-oxid schwarz

(Contd. of page 6)

• Waste disposal key number: The waste code according to the Waste Catalogue Ordinance (AVV) must be determined by the waste producer, it depends on the type of use/ type of waste generation and may be different for a particular product.

• *European waste catalogue The appropriate code according to the European Wast Catalogue (EWC) shoud be used.*

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

14.1. UN-Number ADR, IMDG, IATA	UN3077
, ,	0143077
14.2. UN proper shipping name ADR	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE
	SOLID, N.O.S. (copper oxide)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper oxide), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
	SOLID, N.O.S. (copper oxide)
14.3. Transport hazard class(es)	
ADR	
9	
Class	9 Miscellaneous dangerous substances and articles.
Label	9
IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles.
9 14.4. Packing group 9 ADR, IMDG, IATA	III
14.5. Environmental hazards:	
Marine pollutant:	Yes (P)
Successful an article (ADD)	Symbol (fish and tree)
Special marking (ADR): Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
14.6. Special precautions for user	Not applicable.
Kemler Number:	90



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.09.2017

Version number 1

Revision: 15.09.2017

Trade name Kupfer(II)-oxid schwarz

	(Contd. of page
· Stowage Category · Stowage Code	A SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
14.7. Transport in bulk according to Anne	ex II of
Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
ADR	
· Limited quantities (LQ)	5 kg
\cdot Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
• Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	5 kg
\cdot Excepted quantities (\widetilde{EQ})	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN ''Model Regulation'':	UN 3077 ENVIRONMENTALLY HAZARDOUS
0	SUBSTANCE, SOLID, N.O.S. (COPPER OXIDE), 9, III

SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · Seveso category E1 Hazardous to the Aquatic Environment
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · National regulations
- · Technical instructions (air):

Class	Share in %
III	100.0

• Water hazard class: Water hazard class 1 (L): Slightly hazardous to water.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing data specification sheet: Environment protection department.

• Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation RTECS - Registry of Toxic Effects of Chemical Substances

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

(Contd. on page 9)

GB

Page 9/9

Safety data sheet according to 1907/2006/EC, Article 31



Printing date 15.09.2017

Version number 1

Revision: 15.09.2017

GB

Trade name Kupfer(II)-oxid schwarz

	(Contd. of page 8)
IATA: International Air Transport Association	10,
P: Marine Pollutant	
GHS: Globally Harmonised System of Classification and Labelling of Chemicals	
EINECS: European Inventory of Existing Commercial Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
PNEC: Predicted No-Effect Concentration (REACH)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	
· Sources This information is based on information from suppliers.	
•* Data compared to the previous version altered. Changes Due to recent findings.	