according to Regulation (EC) No. 1907/2006



CuCr1Zr EN CW106C powder 15-53 µm

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

| 1.1 Product identifier | | |
|------------------------|---|-----------------------------------|
| Trade name | : | CuCr1Zr EN CW106C powder 15-53 µm |
| Product code | : | 031505UY0 |

1.2 Relevant identified uses of the substance or mixture and uses advised against This information is not available.

1.3 Details of the supplier of the safety data sheet

| Company | : ECKART TLS GmbH PC-Straße 5 06749 Bitterfeld-Wolfen Germany |
|--|--|
| Telephone | : +493493929590 |
| Telefax | : +4934939295999 |
| E-mail address of person responsible for the SDS | : info.eckart.tls@altana.com |

1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe) Call and response in your language is possible. Contract no.: ECKART29003-NCEC.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

| Classification (REGULATION (EC) No 1272/2008) | | | | | | |
|---|--|--|--|--|--|--|
| Short-term (acute) aquatic hazard, Category 1 | H400: Very toxic to aquatic life. | | | | | |
| Long-term (chronic) aquatic hazard, Category 2 | H411: Toxic to aquatic life with long lasting effects. | | | | | |

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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|-------------------|---------------------------|---|----------------------------------|--|
| Hazard pictograms | | : | ¥2 | |
| Signal | word | : | Warning | |
| Hazard | statements | : | H410 | Very toxic to aquatic life with long lasting effects. |
| Precau | tionary statements | : | Prevention: P273 Response: | Avoid release to the environment. |
| | | | P391 Disposal: P501 | Collect spillage. Dispose of contents/ container to an approved waste disposal plant. |

2.3 Other hazards

Combustible Solids

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| components | - | | |
|---------------|---------------------|----------------------|----------------|
| Chemical name | CAS-No. | ClassificationREGUL | Concentration |
| | EC-No. | ATION (EC) No | (% w/w) |
| | Index-No. | 1272/2008 | |
| | Registration number | | |
| copper | 7440-50-8 | Aquatic Acute 1; | >= 50 - <= 100 |
| | 231-159-6 | H400 | |
| | | Aquatic Chronic 2; | |
| | 01-2119480154-42 | H411 | |
| | | M-Factor (Acute | |
| | | aquatic toxicity): 1 | |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

: Move the victim to fresh air.

Move out of dangerous area.

according to Regulation (EC) No. 1907/2006



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|-------------------------|------------------------------|---|--|--|
| | | | | data sheet to the doctor in attendance. victim unattended. |
| lf inha | aled | : | advice. | ace in recovery position and seek medical ist, call a physician. |
| In case of skin contact | | : | Wash off immedi | ately with soap and plenty of water. |
| In cas | se of eye contact | : | Flush eyes with water as a precaution. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. | |
| lf swa | llowed | : | Never give anythi | tract clear. or alcoholic beverages. ng by mouth to an unconscious person. ist, call a physician. |

4.2 Most important symptoms and effects, both acute and delayed None known.

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

| 5.1 Extinguishing media | | |
|---|-----|--|
| Suitable extinguishing media | : | Dry sand Special powder against metal fire |
| Unsuitable extinguishing media | : | ABC powder Carbon dioxide (CO2) Foam Water |
| 5.2 Special hazards arising from | the | e substance or mixture |
| Specific hazards during firefighting | : | Contact with water liberates extremely flammable gas (hydrogen). |
| | | Do not allow run-off from fire fighting to enter drains or water courses. |
| 5.3 Advice for firefighters | | |
| Special protective equipment for firefighters | : | Wear self-contained breathing apparatus for firefighting if necessary. |
| Further information | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must |

according to Regulation (EC) No. 1907/2006



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|----------------|---|---|---|
| | | be disposed o | f in accordance with local regulations. |
| SECTIO | N 6: Accidental rele | ease measures | |
| 6.1 Perso | nal precautions, pro | tective equipment an | d emergency procedures |
| Perso | onal precautions | | protective equipment. onnel to safe areas. mation. |
| 6.2 Enviro | onmental precaution | S | |
| Gene | ral advice | courses or the Prevent produ Prevent furthe | ct from entering drains. r leakage or spillage if safe to do so. contaminates rivers and lakes or drains inform |
| 6.3 Metho | ds and material for | containment and clea | aning up |
| Metho | ods for cleaning up | | al handling equipment. acuum cleaner. |
| | | Keep in suitab | le, closed containers for disposal. |
| •••••• | ence to other section nal protection see sec | | |

SECTION 7: Handling and storage

7.1 Precautions for safe handling

| | J |
|---|---|
| Advice on safe handling | Avoid creating dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Store away from heat. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. |
| Advice on protection against fire and explosion | : Use explosion-proof equipment. During processing, dust may form explosive mixture in air. Take measures to prevent the build up of electrostatic charge. When transferring from one container to another apply earthing measures and use conductive hose material. |
| | Provide appropriate exhaust ventilation at places where dust is formed. |

according to Regulation (EC) No. 1907/2006



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|---|----------|----------------------------------|---|--|---|
| | Hygien | e measures | : | Wash hands befo | re breaks and at the end of workday. |
| 7.2 (| Conditi | ons for safe storage, | inc | luding any incom | patibilities |
| 7.2 Conditions for safe storage, in Requirements for storage areas and containers | | : | Earthing of containers and apparatuses is essential. Reaction with water liberates extremely flammable gas (hydrogen) Use explosion-proof equipment. Store in original container. Keep away from sources of ignition - No smoking. Keep container closed when not in use. | | |
| | | | | place. Containers resealed and kep | ghtly closed in a dry and well-ventilated which are opened must be carefully t upright to prevent leakage. Electrical king materials must comply with the ety standards. |
| | | r information on e conditions | : | Protect from hum | dity and water. |
| | Advice | on common storage | : | Never allow productors storage. Keep away from | ther with oxidizing and self-igniting products. uct to get in contact with water during oxidizing agents, strongly alkaline and erials in order to avoid exothermic reactions. |
| | | r information on e stability | : | No decomposition | n if stored and applied as directed. |
| 739 | Specific | c end use(s) | | | |

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form | Control parameters | Basis |
|------------|-----------|------------------|--------------------|---------|
| | | of exposure) | | |
| copper | 7440-50-8 | TWA (Fumes) | 0.2 mg/m3 | GB EH40 |
| | | | (Copper) | |
| | | TWA (Dusts and | 1 mg/m3 | GB EH40 |
| | | mists) | (Copper) | |
| | | STEL (Dusts and | 2 mg/m3 | GB EH40 |
| | | mists) | (Copper) | |

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|----------------|---------|-----------------|-------------------------------|-----------|
| copper | Workers | Skin contact | Long-term systemic effects | 137 mg/kg |
| | Workers | Skin contact | Acute systemic effects | 273 mg/kg |

according to Regulation (EC) No. 1907/2006



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|--|---|-------------|-------------------------|--|---------------------|---|-----------------------|-------------|
| | | Consume | rs | Inhalation | е | ong-term local ffects | | 1 mg/m3 |
| | Consur | | rs | Inhalation | A | cute local effects | | 1 mg/m3 |
| | Consume | | rs | Skin contac | | Long-term systemic 137 m effects | | 137 mg/kg |
| | | | rs | Skin contac | | | | 273 mg/kg |
| | | Consume | rs | Ingestion | | Long-term systemic effects | | 0.041 mg/kg |
| | redicted No Effect Co | oncentratio | | - | - | | | |
| | ubstance name | | | ronmental Co | mpartme | nt | Va | |
| CO | pper | | | h water | | | | 078 mg/l |
| | | | | ne water | | | | 052 mg/l |
| | | | STP | h water eadim | aant | | 0.230 mg/l | |
| | | | Fresh water sediment | | | | 87 mg/kg 676 mg/kg | |
| | | | Marine sediment Soil | | | | mg/kg | |
| | | | 501 | | | | 05 | пуку |
| Ре Еу | ersonal protective ed ve/face protection and protection Material Glove length | : | Leathe | fitting safety | | | | |
| Remarks Leather gloves The choice of an appropriate only depend on its material but also on other and is different from one producer to the other The suitability for a specific workplace should with the producers of the protective gloves. Skin and body protection Anti-static and fire resistant protective clothin 11612; EN 533; EN 1149-1. Anti-static safety Dust impervious protective suit Choose body protection according to the amount of the amount of | | | | out also on other qu ducer to the other. workplace should b otective gloves. protective clothing. Anti-static safety sh uit ording to the amour | e di DIN hoes | / features scussed I EN s. nd | | |
| Respiratory protection : Use suitable breathing protection if workplace concentration requires. Breathing apparatus with filter. P1 filter | | | | | | | | |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Form | : granular |
|--------|---------------------|
| Colour | : No data available |

according to Regulation (EC) No. 1907/2006



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|---------------|--|---|--|
| 0 | dour | : characteristic | |
| 0 | dour Threshold | : No data available | |
| Fr | eezing point | : No data available | |
| В | oiling point/boiling range | : No data available | |
| FI | ammability | : Combustible Solids | |
| | oper explosion limit / Upper ammability limit | : No data available | |
| | ower explosion limit / Lower ammability limit | : No data available | |
| FI | ash point | : No data available | |
| Au | uto-ignition temperature | : No data available | |
| D | ecomposition temperature | : No data available | |
| pł | 1 | : substance/mixture is non-soluble (in water) | |
| Vi | scosity, kinematic | : No data available | |
| W | blubility(ies) ater solubility blubility in other solvents | : insoluble : No data available | |
| | artition coefficient: n- ctanol/water | : No data available | |
| | apour pressure | : No data available | |
| Re | elative density | : No data available | |
| D | ensity | : No data available | |
| Re | elative vapour density | : No data available | |
| Pa | article characteristics Particle Size Distribution | : No data available | |
| | ner information o data available | | |

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

according to Regulation (EC) No. 1907/2006



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|---|------------------------------|--------|---------------------------|---|--|--|--|
| 10.2 Chemical stability No decomposition if stored and applied as directed. | | | | | | | |
| 10.3 Possil | bility of hazardous re | actior | าร | | | | |
| Hazard | ous reactions | : | Contact with acid | ts and alkalis may release hydrogen. | | | |
| | | | No decomposition | on if stored and applied as directed. | | | |
| | | | Dust may form e | xplosive mixture in air. | | | |
| 10.4 Condi | tions to avoid | | | | | | |
| Condit | ions to avoid | : | No data available | 9 | | | |
| 10.5 Incom | patible materials | | | | | | |
| Materia | als to avoid | : | Acids | | | | |
| | | | Bases Oxidizing agents | | | | |
| | | | Water | | | | |
| | | | | | | | |
| 10.6 Hazaro | dous decomposition | produ | ucts | | | | |

This information is not available.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

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|----------------|---|-----------------------------|---|--|--|--|--|--|--|
| | T - single exposure classified based on avail | able information. | | | | | | | |
| | STOT - repeated exposure Not classified based on available information. | | | | | | | | |
| - | iration toxicity classified based on avail | able information. | | | | | | | |
| 11.2 Info | rmation on other hazar | ds | | | | | | | |
| Furt | her information | | | | | | | | |
| | <u>Juct:</u> arks | : No data available | 3 | | | | | | |
| SECTIC | SECTION 12: Ecological information | | | | | | | | |
| 12.1 Tox | icity | | | | | | | | |
| <u>Con</u> | ponents: | | | | | | | | |
| | per: actor (Short-term (acute) | : 1 | | | | | | | |

aquatic hazard)

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

No data available

according to Regulation (EC) No. 1907/2006



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|----------------|----------------------------|----------------------------------|---|
| 12.7 Othe | r adverse effects | | |
| <u>Produ</u> | uct: | | |
| | ional ecological nation | unprofessiona Very toxic to a | Ital hazard cannot be excluded in the event of I handling or disposal. quatic life. Ic life with long lasting effects. |

| 13.1 Waste treatment methods | | |
|------------------------------|---|--|
| Product | : | The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. |
| Contaminated packaging | : | Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. |

SECTION 14: Transport information

| 14.1 UN number or ID number | | | |
|---------------------------------|---|--|--|
| ADR | : | UN 3077 | |
| IMDG | : | UN 3077 | |
| ΙΑΤΑ | : | UN 3077 | |
| 14.2 UN proper shipping name | | | |
| ADR | : | ENVIRONMENTALLY N.O.S. (Copper metal powde | HAZARDOUS SUBSTANCE, SOLID, |
| IMDG | : | ENVIRONMENTALLY N.O.S. (Copper metal powde | ' HAZARDOUS SUBSTANCE, SOLID, er) |
| ΙΑΤΑ | : | Environmentally haza (Copper metal powde | ardous substance, solid, n.o.s. er) |
| 14.3 Transport hazard class(es) | | | |
| | | Class | Subsidiary risks |
| ADR | : | 9 | |
| IMDG | : | 9 | |

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|-------------|-----------------|---|---|--------------------------|---|
| | ΙΑΤΑ | | | 9 | |
| 14.4 | | ng group | • | • | |
| | | 55 | | | |
| | ADR Packin | g group | | Ш | |
| | | ication Code | ÷ | M7 | |
| | Hazard | Identification Number | : | 90 | |
| | Labels | | : | 9 | |
| | Tunnel | restriction code | : | (-) | |
| | IMDG | | | | |
| | | g group | : | | |
| | Labels | | : | 9 | |
| | EmS C Remark | | : | F-A, S-F | egation group 7 - Heavy metals and their |
| | Remain | 3 | • | salts | gation group 7 - neavy metals and their |
| | | | | | |
| | IATA (| | | | |
| | | g instruction (cargo | : | 956 | |
| | aircraft | | | 2050 | |
| | | g instruction (LQ) g group | : | Y956 III | |
| | Labels | g group | : | 9 | |
| | | | • | 0 | |
| | | Passenger) g instruction | | 956 | |
| | | nger aircraft) | • | 550 | |
| | | g instruction (LQ) | : | Y956 | |
| | | g group | : | III | |
| | Labels | | : | 9 | |
| 14.5 | Enviro | onmental hazards | | | |
| | ADR | | | | |
| | | nmentally hazardous | • | yes | |
| | | | • | , | |
| | IMDG Marine | pollutant | : | yes | |
| | | | | yuu | |
| 14.6 | - | al precautions for use | | | |
| | Remark | <s< td=""><td>:</td><td>packagings conta</td><td>ings <=5L / 5 kg, or combination ining inner packagings <= 5L / 5 kg net per SV375 ADR, 2.10.2.7 IMDG-Code, A197 be applied.</td></s<> | : | packagings conta | ings <=5L / 5 kg, or combination ining inner packagings <= 5L / 5 kg net per SV375 ADR, 2.10.2.7 IMDG-Code, A197 be applied. |

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

according to Regulation (EC) No. 1907/2006



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SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : | Conditions of restriction for the following entries should be considered: chromium (Number on list 72, 28) |
|--|---|---|
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation | : | Not applicable |
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) | : | Not applicable |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer | : | Not applicable |
| UK REACH List of substances subject to authorisation (Annex XIV) | : | Not applicable |

15.2 Chemical safety assessment

No data available

GB EH40 / STEL

SECTION 16: Other information

| Full text of H-Statements | | | | | |
|----------------------------------|---|--|--|--|--|
| H400 | : | Very toxic to aquatic life. | | | |
| H411 | : | Toxic to aquatic life with long lasting effects. | | | |
| Full text of other abbreviations | | | | | |
| Aquatic Acute | : | Short-term (acute) aquatic hazard | | | |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard | | | |
| GB EH40 | : | UK. EH40 WEL - Workplace Exposure Limits | | | |
| GB EH40 / TWA | : | Long-term exposure limit (8-hour TWA reference period) | | | |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and

: Short-term exposure limit (15-minute reference period)



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Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

| Classification of the mixture: | | Classification procedure: |
|--------------------------------|------|---------------------------|
| Aquatic Acute 1 | H400 | Calculation method |
| Aquatic Chronic 2 | H411 | Calculation method |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN