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.

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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

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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.

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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

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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