SAFETY DATA SHEET

Replaced version: 2.0.0, issued: 08.09.2021

Region: GB

1. Identification

1.1 Product identifier

Trade name

CopperAlloy CuCrZr

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture Copper powder for DMLS processes in EOS M systems Uses advised against No data available.

1.3 Details of the supplier of the safety data sheet

Address

Heeger Materials Inc. 230 Steele St Denver CO 80206 United States Tel: 925-385-8104

Email:

sales@heegermaterials.com

er Ma 1.4 **Emergency telephone number**

+49 (0) 89 / 893 36 - 0 (8 am - 5 pm) +49 (0) 89 / 893 36 - 151 (Mo - Thu: 9 am - 12 pm & 1 - 6 pm; Fr: 1 - 4 pm) (CET)

2. Hazard(s) identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP) Aquatic Acute 1; H400

Aquatic Chronic 2; H411

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms



Signal word Warning Hazard statement(s) H410

Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273	Avoid release to the environment.
P391	Collect spillage.
P501	Dispose of contents/container to a facility in accordance with local and national
	regulations.

2.3 Other hazards

PBT assessment

The study does not need to be conducted according to Annex XIII of Regulation (EC) 1907/2006 (REACH).

vPvB assessment

The study does not need to be conducted according to Annex XIII of Regulation (EC) 1907/2006 (REACH).

3. Composition/Information on Ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Concentration	%
	REACH no			
1	copper			
	7440-50-8	Aquatic Acute 1; H400	< 100.00	wt%
	231-159-6	Aquatic Chronic 2; H411		
	-			
	-			
2	chromium	4/0		
	7440-47-3	-	<2.50	wt%
	231-157-5			
	-			
	-	e e		
Full	Text for all H-phrases	and EUH-phrases: pls. see section 16	- /b	

4. First-aid measures

4.1 Description of first aid measures

General information

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Ensure supply of fresh air.

After skin contact

When in contact with the skin, clean with soap and water.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

- **4.2 Most important symptoms and effects, both acute and delayed** No data available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No data available.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Extinguishing powder; Sand; Metal fire powders

Unsuitable extinguishing media Water; Foam; Carbon dioxide

5.2 Special hazards arising from the substance or mixture In the event of fire, the following can be released: Metal oxides

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Run-off water from fire fighting must not be discharged into drains or enter surface water.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Avoid dust formation. Ensure adequate ventilation.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up Avoid raising dust. Collect mechanically. Send in suitable containers for recovery or 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.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary). Avoid the formation and deposition of dust.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Do not inhale dust.

Advice on protection against fire and explosion

Dust can form an explosive mixture with air. Keep away from sources of heat and ignition. Avoid formation of dust.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Always keep in containers of same material as the original. Containers which are opened must be carefully closed and kept upright to prevent leakage.

Incompatible products

Substances to be avoided, see section 10.

7.3 Specific end use(s)

No data available.

8. Exposure controls / personal protection

8.1 **Control parameters**

Occupational exposure limit values

No	Substance name	CAS no.		EC no.
1	copper	7440-50-	.8	231-159-6
	List of approved workplace exposure limits (WE	Ls) / EH40		
	Copper			
	fume			
	WEL long-term (8-hr TWA reference period)	0.2	mg/m³	
	List of approved workplace exposure limits (WE	Ls) / EH40		
	Copper			
	dusts and mists			
	Cu			
	WEL short-term (15 min reference period)	2	mg/m³	
	WEL long-term (8-hr TWA reference period)	1	mg/m³	
2	chromium	7440-47-	.3	231-157-5
	List of approved workplace exposure limits (WE	Ls) / EH40		
	Chromium			
	WEL long-term (8-hr TWA reference period)	0.5	mg/m³	
	2006/15/EC			
	Chromium Metal, Inorganic Chromium (II) Compour			I) Compounds (insoluble)
	WEL long-term (8-hr TWA reference period)	2	mg/m³	
3	Dust			
	List of approved workplace exposure limits (WE	Ls) / EH40		
	Dust respirable			
	WEL long-term (8-hr TWA reference period)	<u>~ (4 7)</u>	mg/m³	
	Comments		nition 44 "Dust"	
	List of approved workplace exposure limits (WE	Ls) / EH40 🗋 🚽		
	Dust inhalable		4	
	WEL long-term (8-hr TWA reference period)	10	mg/m³	
	Comments	see Defir	nition 44 "Dust"	<u> </u>
	Comments DNEL, DMEL and PNEC values	see Defir	nition 44 "Dust"	tic.

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC	C no
	Route of exposure	oute of exposure Exposure time		Value	
1	copper	opper		7440-50-	8
				231-159-	6
	dermal	Long term (chronic)	systemic	137	mg/kg bw/day
	dermal	Short term (acut)	systemic	273	mg/kg bw/day
	inhalative	Long term (chronic)	local	1	mg/m³
	inhalative	Short term (acut)	local	1	mg/m³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	copper		7440-50-8 231-159-6		
	oral	Long term (chronic)	systemic	0.041	mg/kg bw/day
	dermal	Long term (chronic)	systemic	137	mg/kg bw/day
	dermal	Short term (acut)	systemic	273	mg/kg bw/day
	inhalative	Long term (chronic)	local	1	mg/m³
	inhalative	Short term (acut)	local	1	mg/m³

No Substance name CAS / EC no

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	ecological compartment	Туре	Value	
1	copper		7440-50- 231-159-	-
	water	fresh water	7.8	μg/L
	water	marine water	5.2	µg/L
	water	fresh water sediment	87	mg/kg dry weight
	water	marine water sediment	676	mg/kg dry weight
	soil	-	65	mg/kg dry weight
	sewage treatment plant	-	230	µg/L

8.2 **Exposure controls**

Appropriate engineering controls

Ensure adequate ventilation, local exhaust at the work station if necessary.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event that workplace threshold values are not specified.

Respiratory filter (part):

P2-P3

Eye / face protection Tightly fitting safety glasses (EN 166).

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific workstation suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves. Inc.

nitrile rubber Appropriate Material

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation
solid
Form/Colour
Powder
product specific
Odour
No data available
pH value
No data available
Boiling point / boiling range
No data available
Melting point/freezing point
No data available

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No data available.

10. Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions Spontaneously flammable when finely dispersed

10.4 Conditions to avoid

Avoid formation of dust. Protect from humid air and water.

10.5 Incompatible materials Acids; Bases; Oxidizing agents; Halogenated compounds

10.6 Hazardous decomposition products

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No data available.

11. Toxicological information

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

Acute oral toxicity
No data available
Acute dermal toxicity
No data available
Acute inhalational toxicity
No data available
Skin corrosion/irritation
No data available
Serious eye damage/irritation
No data available
Respiratory or skin sensitisation
No data available
Germ cell mutagenicity
No data available
Reproduction toxicity
No data available
Carcinogenicity
No data available
STOT - single exposure
No data available
STOT - repeated exposure
No data available
Aspiration hazard
No data available

11.2 Information on other hazards

Endocrine disrupting properties No data available. Other information No data available.

12. Ecological information

12.1 Toxicity

Toxi	Toxicity to fish (acute)				
No	Substance name	CAS no.	EC no.		
1	copper	7440-50-8	231-159-6		
LC5	0	0.035	mg/l		
Dura	ation of exposure	96	h		
Spee	cies	Danio rerio			
Method		ISO TC 147/SC 5/WG3 (secretariat 6)			
Source		ECHA / Read across			
Toxicity to fish (chronic)					
No	Substance name	CAS no.	EC no.		
1	copper	7440-50-8	231-159-6		
NOEC		0.023	mg/l		

			7	
	iration of exposure		7	day(s)
	becies	Pimephales promelas		
	ethod	OECD 204		
Sc	ource	ECHA		
То	xicity to Daphnia (acute)			
	Substance name	CAS no.		EC no.
1	copper	7440-50		231-159-6
FC	250	0.034	- 0.792	mg/l
	iration of exposure		48	h
	ecies	Daphnia magna		
	ethod	OECD 202		
	burce	ECHA		
	xicity to Daphnia (chronic)			
-	Substance name	CAS no.		EC no.
1	copper	7440-50		231-159-6
	DEC		0.032	mg/l
	iration of exposure		7	day(s)
	pecies	Daphnia magna		
	ethod	OECD 211		
Sc	ource	ECHA		
То	xicity to algae (acute)			
	data available	~		
-	<u> </u>			
	xicity to algae (chronic)			
NC	o data available			
Ba	icteria toxicity	- Alta	ials.	
No	o data available	4102	•	
			7	
12.2	Persistence and degradability			
	No data available.		4/0	
12.3	Bioaccumulative potential			-
12.0	No data available.		_	In-
	No data avaliable.			
12.4	Mobility in soil			
	No data available.			•
	Results of PBT and vPvB assessm	ent		
	esults of PBT and vPvB assessment		14.1	
PE	3T assessment			ed according to Annex XIII of
_	N.D. and a second second	Regulation (EC) 1907/		
VP	vB assessment			ed according to Annex XIII of
		Regulation (EC) 1907/	2006 (REACH).	
126	Endocrine disrupting properties			
12.0				

- No data available.
- 12.7 Other adverse effects

No data available.

12.8 Other information Other information

Do not discharge into drains or waters and do not dispose of in public landfills.

13. Disposal considerations

13.1 Waste treatment methods

Product

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

14. Transport information

14.1 Transport ADR/RID/ADN

14.2	Class Classification code Packing group Hazard identification no. UN number Proper shipping name Technical name Tunnel restriction code Label Environmentally hazardous substance mark	9 M7 III 90 UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. copper - 9 Symbol "fish and tree"
	Class Packing group	9
	UN number	UN3077
	Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
	Technical name EmS	copper F-A, S-F
	Label	9
	Marine pollutant mark	Symbol "fish and tree"
14.3	Transport ICAO-TI / IATA Class Packing group UN number Proper shipping name Technical name Label Environmentally hazardous substance mark	F-A, S-F 9 Symbol "fish and tree" 9 III UN3077 Environmentally hazardous substance, solid, n.o.s. copper 9 Symbol "fish and tree"
14.4	Other information No data available.	
14.5		ards, if relevant, please see 14.1 - 14.3.
14.6	Special precautions for user No data available.	
		

14.7 Maritime transport in bulk according to IMO instruments Not relevant

15. Regulatory information

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

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation) According to the data available and/or specifications supplied by upstream suppliers, this product does not contain

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any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances subject to restriction as listed in Annex XVII of the REACH regulation (EC) 1907/2006.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances This product is subject to Part I of Annex I, risk category: E1

15.2 **Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

16. Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

I- phrases drawn up in sec. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections) H400

H411