# EU safety data sheet

Trade name: Hovadur® CCZ Pulver

Current version : 1.0.2, issued: 27.10.2022

Replaced version: 1.0.1, issued: 02.10.2019

Region: GB

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

#### 1.1 Product identifier

Trade name

# Hovadur® CCZ Pulver

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

Relevant identified uses of the substance or mixture Additive Manufacturing Uses advised against

No data available.

### 1.3 Details of the supplier of the safety data sheet

#### Address

SCHMELZMETALL DEUTSCHLAND GmbH Raiffeisenstraße 8 97854 Steinfeld-Hausen

Telephone no.+49 9359 9740-0e-mailsales@schmelzmetall.com

Advice on Safety Data Sheet sdb\_info@umco.de

#### 1.4 Emergency telephone number

For medical advice (in German and English): +49 (0)551 192 40 (Giftinformationszentrum Nord)

#### **SECTION 2: Hazards 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 3; H412

#### **Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC)  $n^{\circ}$  1272/2008:

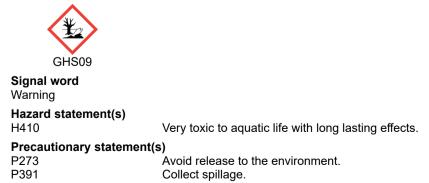
Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

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



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Dispose of contents/container to a facility in accordance with local and national regulations.

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#### 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).

### SECTION 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 3; H412		
	-			
	-			
2	chromium			
	7440-47-3	-	< 2.50	wt%
	231-157-5			
	-			
	-			

Full Text for all H-phrases and EUH-phrases: pls. see section 16

#### **SECTION 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.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

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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.

# **SECTION 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.

### **SECTION 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.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational exposure limit values**

No Substance name

CAS no.

EC no.

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1	copper	7440-50	-8	231-159-6	
•	List of approved workplace exposure limits (WEL		-0	231-135-0	
	Copper				
_	fume				
	WEL long-term (8-hr TWA reference period)	0.2	mg/m³		
	List of approved workplace exposure limits (WEL	s) / 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/m <sup>3</sup>		
2	chromium	7440-47	-3	231-157-5	
	List of approved workplace exposure limits (WEL	List of approved workplace exposure limits (WELs) / EH40			
	Chromium				
	WEL long-term (8-hr TWA reference period)	0.5	mg/m³		
	2006/15/EC				
	Chromium Metal, Inorganic Chromium (II) Compounds and Inorganic Chromium (III) Compounds (insoluble)				
	WEL long-term (8-hr TWA reference period)	2	mg/m³		
3	Dust				
	List of approved workplace exposure limits (WELs) / EH40				
	Dust respirable				
	WEL long-term (8-hr TWA reference period)	4	mg/m³		
	Comments		nition 44 "Dust"		
	List of approved workplace exposure limits (WELs) / EH40				
	Dust inhalable	-			
	WEL long-term (8-hr TWA reference period)	10	mg/m³		
	Comments	see Defi	nition 44 "Dust"		

#### 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. P2-P3

Respiratory filter (part):

#### 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.

#### Other

Chemical-resistant work clothes.

#### Environmental exposure controls

No data available.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

#### State of aggregation

# solid

Form

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Powder			
Colour			
copper colours			
Odour			
odourless			
pH value			
No data available			
Boiling point / boiling range			
No data available			
Melting point/freezing point	4075	4005	
Value	1075 -	- 1085	<b>°</b> C
Decomposition temperature			
No data available			
Flash point No data available			
Ignition temperature No data available			
Flammability			
The product is non-flammable.			
Method	UN N.1		
Source	supplier		
Lower explosion limit			
No data available			
Upper explosion limit			
No data available			
Vapour pressure No data available			
Relative vapour density No data available			
Relative density No data available			
Density Value	1	8.9	g/cm <sup>3</sup>
Reference temperature		20	°C
Solubility in water			
Comments	insoluble		
Solubility			
No data available			
Partition coefficient n-octanol/water (log value	le)		
No data available			
Kinematic viscosity			
No data available			
Particle characteristics			
No data available			
2 Other information			
Other information			
No data available.			

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# **SECTION 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** Dangerous reactions are not to be expected when handling product according to its intended use.
- **10.4 Conditions to avoid** Avoid formation of dust.
- **10.5** Incompatible materials Acids; Bases; Oxidizing agents
- **10.6 Hazardous decomposition products** No data available.

# **SECTION 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
2 Information on other hazarda

# 11.2 Information on other hazards

Endocrine disrupting properties No data available.

Other information No data available.

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# **SECTION 12: Ecological information**

### 12.1 Toxicity

-
Toxicity to fish (acute)
No data available
Terristic to Black (alternation)
Toxicity to fish (chronic)
No data available
Toxicity to Daphnia (acute)
No data available
Toxicity to Daphnia (chronic)
No data available
Toxicity to algae (acute)
No data available
Toxicity to algae (chronic)
No data available
Bacteria toxicity
No data available

#### 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

Results of PBT and vPvB assessment	
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).

#### **12.6 Endocrine disrupting properties**

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.

### **SECTION 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.

### **SECTION 14: Transport information**

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14.1 Transport ADR/RID/ADN Class 9 M7 Classification code Packing group Ш Hazard identification no. 90 **UN** number UN3077 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Technical name copper Tunnel restriction code I abel a Environmentally hazardous Symbol "fish and tree" substance mark 14.2 Transport IMDG Class 9 Packing group Ш UN3077 **UN** number Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Technical name copper F-A, S-F EmS Label Marine pollutant mark Symbol "fish and tree" 14.3 Transport ICAO-TI / IATA 9 Class Packing group Ш UN number UN3077 Proper shipping name Environmentally hazardous substance, solid, n.o.s. Technical name copper I abel q Environmentally hazardous Symbol "fish and tree" substance mark 14.4 Other information No data available. 14.5 Environmental hazards Information on environmental hazards, if relevant, please see 14.1 - 14.3. 14.6 Special precautions for user No data available. Maritime transport in bulk according to IMO instruments 14.7 Not relevant **SECTION 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 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

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The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.				
No	Substance name	CAS no.	EC no.	No
1	chromium	7440-47-3	231-157-5	75
2	copper	7440-50-8	231-159-6	75
3	zirconium powder (pyrophoric)	7440-67-7	231-176-9	75

 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.

### **SECTION 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.

# Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H400Very toxic to aquatic life.H412Harmful to aquatic life with long lasting effects.

#### Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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