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

1.1 Product identifier

Trade name

Hovadur® CCNB 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 9740-0

e-mail sales@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)

Acute Tox. 4; H332 Aquatic Acute 1; H400 Aquatic Chronic 3; H412 Carc. 1B; H350

Carc. 1B; H350 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT RE 2; H373

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

Danger

Hazardous component(s) to be indicated on label:

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nickel powder; [particle diameter < 1 mm]

cobalt beryllium

Hazard statement(s)

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H350 May cause cancer.

H373 May cause damage to organs through prolonged or repeated exposure

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201 Obtain special instructions before use.
P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P391 Collect spillage.

Supplemental label elements

"Restricted to professional users"

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		Additi	onal information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Conce	entration	%
1	copper				
	7440-50-8	Aquatic Acute 1; H400	<	100.00	wt%
	231-159-6	Aquatic Chronic 3; H412			
	-				
	-				
2		rticle diameter < 1 mm]			
	7440-02-0	Aquatic Chronic 3; H412	<	2.50	wt%
	231-111-4	Carc. 2; H351			
	028-002-01-4	Skin Sens. 1; H317			
	-	STOT RE 1; H372**			
3	cobalt				
	7440-48-4	Acute Tox. 4; H302	<	2.50	wt%
	231-158-0	Acute Tox. 2; H330			
	027-001-00-9	Eye Irrit. 2; H319			
	-	Skin Sens. 1; H317			
		Resp. Sens. 1; H334			
		Carc. 1B; H350i			
		Repr. 2; H361			
		Aquatic Acute 1; H400			
		Aquatic Chronic 1; H410			
4	beryllium				10/
	7440-41-7	Acute Tox. 2*; H330	<	2.50	wt%

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231-150-7	Acute Tox. 3*; H301	
004-001-00-7	Carc. 1B; H350i	
-	Eye Irrit. 2; H319	
	Skin Irrit. 2; H315	
	Skin Sens. 1; H317	
	STOT RE 1; H372i	
	STOT SE 3; H335	

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

(*,**,***,****) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
3	-	-	M = 10	-

No	Route, target organ, concrete effect
3	H350i
	inhalational; -; -
	H361
	oral; testicle; -
4	H350i
	inhalational; -; -
	H372i
	inhalational; -; -

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position. In case of allergic symptoms, especially respiratory tract related, seek medical help immediately.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. Call a doctor immediately. If breathing is irregular or stopped, administer artificial respiration.

After skin contact

In case of contact with skin wash off immediately with copious amounts of water. Consult a doctor if skin irritation persists.

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). In case of irritation consult an ophthalmologist.

After ingestion

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

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

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

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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. Take up 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. Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

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.
1	copper	7440-50-8	231-159-6
	List of approved workplace exposure limits (WELs) / EH40		
	Copper		

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	T.	
	fume	
	WEL long-term (8-hr TWA reference period)	0.2 mg/m³
	List of approved workplace exposure limits (WE	ELs) / 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	nickel powder; [particle diameter < 1 mm]	7440-02-0 231-111-4
	List of approved workplace exposure limits (WE	
		racarbonyl): water soluble nickel compounds (as Ni)
	WEL long-term (8-hr TWA reference period)	0.1 mg/m³
	Comments	Sk, Carc (nickel oxides and sulphides) Sen (nickel
		sulphate)
	List of approved workplace exposure limits (WE	
	Nickel & water insoluble compounds nickel compou	nds (as Ni)
	WEL long-term (8-hr TWA reference period)	0.5 mg/m³
	Comments	Sk, Carc (nickel oxides and sulphides) Sen (nickel
		sulphate)
3	cobalt	7440-48-4 231-158-0
	List of approved workplace exposure limits (WE	
	List of approved workplace exposure limits (WE Cobalt & cobalt compounds (as Co)	ELs) / EH40
	List of approved workplace exposure limits (WE Cobalt & cobalt compounds (as Co) WEL long-term (8-hr TWA reference period)	0.1 mg/m³
	List of approved workplace exposure limits (WE Cobalt & cobalt compounds (as Co)	ELs) / EH40
4	List of approved workplace exposure limits (WE Cobalt & cobalt compounds (as Co) WEL long-term (8-hr TWA reference period) Comments Dust	0.1 mg/m³ Carc (cobalt dichloride and sulphate), Sen
	List of approved workplace exposure limits (WE Cobalt & cobalt compounds (as Co) WEL long-term (8-hr TWA reference period) Comments Dust List of approved workplace exposure limits (WE	0.1 mg/m³ Carc (cobalt dichloride and sulphate), Sen
	List of approved workplace exposure limits (WE Cobalt & cobalt compounds (as Co) WEL long-term (8-hr TWA reference period) Comments Dust List of approved workplace exposure limits (WE Dust respirable	0.1 mg/m³ Carc (cobalt dichloride and sulphate), Sen
	List of approved workplace exposure limits (WE Cobalt & cobalt compounds (as Co) WEL long-term (8-hr TWA reference period) Comments Dust List of approved workplace exposure limits (WE	O.1 mg/m³ Carc (cobalt dichloride and sulphate), Sen ELs) / EH40 4 mg/m³
	List of approved workplace exposure limits (WE Cobalt & cobalt compounds (as Co) WEL long-term (8-hr TWA reference period) Comments Dust List of approved workplace exposure limits (WE Dust respirable WEL long-term (8-hr TWA reference period) Comments	O.1 mg/m³ Carc (cobalt dichloride and sulphate), Sen ELs) / EH40 4 mg/m³ see Definition 44 "Dust"
	List of approved workplace exposure limits (WE Cobalt & cobalt compounds (as Co) WEL long-term (8-hr TWA reference period) Comments Dust List of approved workplace exposure limits (WE Dust respirable WEL long-term (8-hr TWA reference period) Comments List of approved workplace exposure limits (WE List of approxed workplace exposure limits (WE List of	O.1 mg/m³ Carc (cobalt dichloride and sulphate), Sen ELs) / EH40 4 mg/m³ see Definition 44 "Dust"
	List of approved workplace exposure limits (WE Cobalt & cobalt compounds (as Co) WEL long-term (8-hr TWA reference period) Comments Dust List of approved workplace exposure limits (WE Dust respirable WEL long-term (8-hr TWA reference period) Comments List of approved workplace exposure limits (WE Dust inhalable	O.1 mg/m³ Carc (cobalt dichloride and sulphate), Sen ELs) / EH40 4 mg/m³ see Definition 44 "Dust" ELs) / EH40
	List of approved workplace exposure limits (WE Cobalt & cobalt compounds (as Co) WEL long-term (8-hr TWA reference period) Comments Dust List of approved workplace exposure limits (WE Dust respirable WEL long-term (8-hr TWA reference period) Comments List of approved workplace exposure limits (WE Dust inhalable WEL long-term (8-hr TWA reference period)	O.1 mg/m³ Carc (cobalt dichloride and sulphate), Sen ELs) / EH40 4 mg/m³ see Definition 44 "Dust" ELs) / EH40 10 mg/m³
	List of approved workplace exposure limits (WE Cobalt & cobalt compounds (as Co) WEL long-term (8-hr TWA reference period) Comments Dust List of approved workplace exposure limits (WE Dust respirable WEL long-term (8-hr TWA reference period) Comments List of approved workplace exposure limits (WE Dust inhalable WEL long-term (8-hr TWA reference period) Comments	O.1 mg/m³ Carc (cobalt dichloride and sulphate), Sen ELs) / EH40 4 mg/m³ see Definition 44 "Dust" ELs) / EH40 10 mg/m³ see Definition 44 "Dust"
	List of approved workplace exposure limits (WE Cobalt & cobalt compounds (as Co) WEL long-term (8-hr TWA reference period) Comments Dust List of approved workplace exposure limits (WE Dust respirable WEL long-term (8-hr TWA reference period) Comments List of approved workplace exposure limits (WE Dust inhalable WEL long-term (8-hr TWA reference period) Comments beryllium	0.1 mg/m³ Carc (cobalt dichloride and sulphate), Sen
4	List of approved workplace exposure limits (WE Cobalt & cobalt compounds (as Co) WEL long-term (8-hr TWA reference period) Comments Dust List of approved workplace exposure limits (WE Dust respirable WEL long-term (8-hr TWA reference period) Comments List of approved workplace exposure limits (WE Dust inhalable WEL long-term (8-hr TWA reference period) Comments beryllium List of approved workplace exposure limits (WE Dust inhalable)	0.1 mg/m³ Carc (cobalt dichloride and sulphate), Sen
4	List of approved workplace exposure limits (WE Cobalt & cobalt compounds (as Co) WEL long-term (8-hr TWA reference period) Comments Dust List of approved workplace exposure limits (WE Dust respirable WEL long-term (8-hr TWA reference period) Comments List of approved workplace exposure limits (WE Dust inhalable WEL long-term (8-hr TWA reference period) Comments but long-term (8-hr TWA reference period) Comments beryllium List of approved workplace exposure limits (WE Beryllium & beryllium compounds (as Be)	0.1 mg/m³ Carc (cobalt dichloride and sulphate), Sen
4	List of approved workplace exposure limits (WE Cobalt & cobalt compounds (as Co) WEL long-term (8-hr TWA reference period) Comments Dust List of approved workplace exposure limits (WE Dust respirable WEL long-term (8-hr TWA reference period) Comments List of approved workplace exposure limits (WE Dust inhalable WEL long-term (8-hr TWA reference period) Comments beryllium List of approved workplace exposure limits (WE Beryllium & beryllium compounds (as Be) WEL long-term (8-hr TWA reference period)	0.1 mg/m³ Carc (cobalt dichloride and sulphate), Sen
4	List of approved workplace exposure limits (WE Cobalt & cobalt compounds (as Co) WEL long-term (8-hr TWA reference period) Comments Dust List of approved workplace exposure limits (WE Dust respirable WEL long-term (8-hr TWA reference period) Comments List of approved workplace exposure limits (WE Dust inhalable WEL long-term (8-hr TWA reference period) Comments but long-term (8-hr TWA reference period) Comments beryllium List of approved workplace exposure limits (WE Beryllium & beryllium compounds (as Be)	0.1 mg/m³ Carc (cobalt dichloride and sulphate), Sen

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

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): 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



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permanent use of protective gloves.

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

Partition coefficient n-octanol/water (log value)

9.1 Information on basic physical and chemical properties

State of aggregation solid	
Form/Colour	
Powder	
copper colours	
Odour	
odourless	
pH value	
No data available	
Boiling point / boiling range	
No data available	
Melting point/freezing point	4000 4000 %0
Value	1000 - 1030 °C
Decomposition temperature No data available	
Flash point No data available	
Ignition temperature No data available	
Flammability	
No data available	
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	8.85 g/cm³
Reference temperature	20 °C
Solubility in water	
Comments	insoluble
Solubility	
No data available	

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No data available

Viscosity

No data available

Particle characteristics

No data available

9.2 Other information

No data available.

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.

Acute dermal toxicity

SECTION 11: Toxicological information

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

Acu	Acute oral toxicity (result of the ATE calculation for the mixture)		
No	Product Name		
1	Hovadur® CCNB Pulver		
Con	nments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).	

Acute oral toxicity	
No data available	

No data available

Acute inhalational toxicity (result of the ATE calculation for the mixture)			
No Product Name	Product Name		
1 Hovadur® CCNB Pulver	Hovadur® CCNB Pulver		
ATE (Mixture)	2.5000		
Route of exposure / physical from	pute of exposure / physical from Dust/mist		
Method	ethod Calculation method according Regulation (EC) No 1272/2008,		
	(CLP), annex I, part 3, section 3.1.3.6.		

Acute inhalational toxicity	
No data available	

Skin corrosion/irritation
No data available

Serious eye damage/irritation



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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.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)

No data available

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).

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

Endocrine disrupting properties

No data available.

Other adverse effects

No data available.

12.8 Other information

Other information

Do not discharge into the drains or waters and do not store on public depositories.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

14.1 Transport ADR/RID/ADN

Class Classification code M7 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 Label

Symbol "fish and tree" Environmentally hazardous

substance mark

14.2 Transport IMDG

Class 9 Ш Packing group 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 UN3077 **UN** number

Proper shipping name Environmentally hazardous substance, solid, n.o.s.

Technical name copper Label

Environmentally hazardous

substance mark

Symbol "fish and tree"

14.4 Other information

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No data available.

Environmental hazards 14 5

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

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

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	beryllium	7440-41-7	231-150-7	28
2	nickel powder: [particle diameter < 1 mm]	7440-02-0	231-111-4	27. 27

Directive 2012/18/EU on the control of major-accident hazards involving dange	rous 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

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

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H350i	May cause cancer by inhalation.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or

the unborn child.

Causes damage to organs through prolonged or repeated exposure. H372

Causes damage to organs through prolonged or repeated exposure if inhaled. H372i



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H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Creation of the safety data sheet

UMCO GmbH

Georg-Wilhelm-Str. 187, D-21107 Hamburg

Tel.: +49 40 / 555 546 300 Fax: +49 40 / 555 546 357 e-mail: umco@umco.de

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.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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Prod-ID 758660