

MSDS

Material Safety Data Sheet

MSDS MATERIAL SAFETY DATA SHEET		0.1 Product	Uniek Kopersulfaat
		0.2 Status	Active
		0.3 Version	9
		0.4 Version date	11-03-2024
1. Identification of the substance/mixture and of the company			
1.1 Product identification			
Product name		Uniek Kopersulfaat	
Trade name		Uniek Kopersulfaat / Uniek Kupfersulfat / Uniek Copper Sulphate / Uniek Sulfate de Cuivre	
Product code		UNIE20000	
Chemical description		Substance	
UFI		-	
REACH registration number		01-2119520566-40-XXXX	
1.2 Relevant identified uses of the substance or mixture and uses advised against			
Identified use(s)		Agricultural use. Various industrial applications.	
Use(s) advised against		Not identified.	
1.3 Details of the supplier of the safety data sheet			
Company identification		Name	Hofman Animal Care B.V.
Contact details		Address	De Leemkoele 2
		Zip code	7468 DM
		Town	Enter
		Country	The Netherlands
		Telephone	+31 (0)548-545277
		E-mail	info@hofmananimalcare.nl
		Website	www.hofmananimalcare.com
1.4 Emergency telephone number			
Emergency telephone number		The Netherlands: National Poisoning Information Centre – Utrecht TEL: +31 (0) 88 755 8000 Belgium: Antipoison Centre – Brussels TEL: +32 (0)70 245 245 (Only for the purpose of informing medical personnel in case of acute intoxications)	

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) no. 1272/2008:

Acute Tox. 4: Acute toxicity, category 4: H302

Eye Dam. 1: Serious eye damage, category 1: H318

Aquatic Acute 1: Hazardous to the aquatic environment (acute), category 1: H400

Aquatic Chronic 1: Hazardous to the aquatic environment (chronic), category 1: H410

This product contains less than 1% of crystalline silica breathable fraction, so it does not require classification.

The full text of the (EU)H-statements can be found in section 16.

2.2 Label elements

Labelling according to Regulation (EC) no. 1272/2008:

Hazardous component(s) Copper sulphate pentahydrate (CAS: 7758-99-8)

Hazard pictogram(s)



Signal word

Danger

Hazard statements

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary measures

- Prevention

P264 Wash all exposed parts of the body thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

- Response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P330 Rinse mouth.

P391 Collect spillage.

- Disposal

P501 Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

2.3 Other hazards

Results of PBT and vPvB assessment

Product does not meet PBT/vPvB criteria.

Endocrine disrupting properties

The product does not meet the criteria for endocrine-disrupting properties.

3. Composition / information on ingredients

3.1 Substances

Name component(s)	Weight %	CAS no.	EINECS no.	Index no.	REACH no.	Classification
Copper sulphate pentahydrate ¹	98 - <100	7758-99-8	231-847-6	029-023-00-4	01-2119520566-40-XXXX	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Silicon dioxide (RCS < 1%) ²	<2.5 %	7631-86-9	231-545-4	-	1-2119379499-16-XXXX	Not classified

¹ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

² Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2020/878

The full text of the (EU)H-statements can be found in section 16.

Specific concentration limit, multiplication factor, acute toxicity estimation

Name component(s)	CAS no.	SCL, M-factor, ATE
Copper sulphate pentahydrate ¹	7758-99-8	Acute: M=10 Chronic: M=1 ATE - LD50 oral (rat) : 481 mg/kg bw

3.2 Mixtures

Not applicable.

4. First aid measures

4.1 Description of first aid measures

General	The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.
First aid measures in case of inhalation	This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.
First aid measures in case of skin contact	In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety Data Sheet
First aid measures in case of eye contact	Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.
First aid measures in case of ingestion	Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

4.2 Most important symptoms and effects, both acute and delayed

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed

Not relevant.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.
Unsuitable extinguishing media	Non-applicable.

5.2 Special hazards arising from the substance or mixture

Special exposure hazards	As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.
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5.3 Advice for firefighters

Special protective equipment	Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EEC.
Special procedures	Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	<i>For non-emergency personnel:</i> Vacuum the product and place it in a container for reuse (preferably) or disposal. <i>For emergency responders:</i> Wear protective equipment. Keep unprotected persons away. See section 8.
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6.2 Environmental precautions

Environmental precautions	Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.
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6.3 Methods and material for containment and cleaning up

Methods for cleaning up	It is recommended: Preferably use vacuum extraction for cleaning. Given the environmental hazard of the product, it is advisable to use cleaning methods that minimize its dispersion into the surround.
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6.4 Reference to other sections

Personal protection	See section 8.
Removal of the waste product	See section 13.

7. Handling and storage

7.1 Precautions for safe handling

Handling	<u>A.- General precautions for safe use</u> Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6). <u>B.- Technical recommendations for the prevention of fires and explosions</u> Due to its non-inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.
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		<u>C.- Technical recommendations on general occupational hygiene</u> Do not eat or drink during the process, washing hands afterwards with suitable cleaning products. <u>D.- Technical recommendations to prevent environmental risks</u> Preferably use vacuum extraction for cleaning. Given the environmental hazard of the product, it is advisable to use cleaning methods that minimize its dispersion into the surround					
7.2	Conditions for safe storage, including any incompatibilities						
Storage		<u>A.- Specific storage requirements</u> Store in a cool, dry, well-ventilated location <u>B.- General conditions for storage</u> Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5.					
Protection against fire and explosion		No information available.					
Suitable packaging material		No information available.					
Unsuitable packaging material		No information available.					
7.3	<u>Specific end use(s)</u>						
Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.							
8. Exposure controls / personal protection							
8.1	Control parameters						
Occupational exposure limits							
Occupational exposure limit values							
Cas no	Name of agent	Material name	TWA-8h (ppm)	TWA-8h (mg/m³)	TWA- 15 min (ppm)	TWA-15 min (mg/m³)	Source
7758-99-8	Copper sulphate pentahydrate	Copper and inorganic copper compounds		0.1			GSW public limit values (NL 2022)
				1		1240	REACH
				0.2		0.8	TRGS 900 (DE)
7631-86-9	Silicon dioxide (RCS < 1%)			4			REACH
				1		8	TRGS (DE)
TWA-8h= (time-weighted average) long-term exposure limit; TWA-15 min = short-term exposure limit							
Biological limit values			No information available.				
DNELs							
Relevant DNELs for the product's components							
Name of agent	Cas no	End-point	Route of exposure	Used in	Threshold level	Exposure time	
Copper sulphate pentahydrate	7758-99-8	DNEL	Dermal	Worker	137 mg/kg	Systemic, chronic	
		DNEL	Inhalation	Worker	1 mg/m³	Systemic, chronic	
		DNEL	Inhalation	Worker	1 mg/m³	Local, chronic	
		DNEL	Oral	General population	0.082 mg/kg	Systemic, acute	
		DNEL	Oral	General population	0.041 mg/kg	Systemic, chronic	

PNECs

Name of agent	Cas no	End-point	Threshold level	Environmental compartment
Copper sulphate pentahydrate	7758-99-8	PNEC	0.0078 mg/l	Fresh water
		PNEC	0.0052 mg/l	Marine water
		PNEC	87 mg/kg	Fresh water sediments
		PNEC	676 mg/kg	Marine water sediments
		PNEC	65 mg/kg	Soil
		PNEC	0.23 mg/l	Micro-organisms in sewage treatment plants (STPs)

8.2 Exposure controls

Appropriate engineering controls No information available.

Personal protection equipment

General	As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding "CE Marking" in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.
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Eye / face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.		EN ISO 16321-1:2022 + EN ISO 16321-3:2022 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing		-	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes		EN ISO 20347:2022/A1:2024	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2022 and EN 13832-1:2019



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Hand protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Protective gloves against minor risks		-	Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN ISO 21420:2020 and EN ISO 374 1:2016+A1:2018

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

Respiratory protection

If the working conditions and/or safety measures adopted do not allow keeping the airborne concentration of the product below the exposure limits (if any) or at acceptable levels (if no exposure limits exist), suitable respiratory protection equipment chosen by a qualified professional should be used.

Additional emergency measures

It is advised to implement additional emergency equipment in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipment.

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

Volatile organic compounds

With regard to Directive 2010/75/EU, this product has the following characteristics:
 V.O.C. (Supply): 0 % weight.
 V.O.C. density at 20 °C: 0 kg/m³ (0 g/l).
 Average carbon number: Not relevant.
 Average molecular weight: Not relevant.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	Solid
Appearance	Crystalline
Colour	Blue
Odour	Odourless
Odour threshold	Not available *

Volatility

Boiling point at atmospheric pressure	Not available *
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Vapour pressure at 20 °C	Not available *
Vapour pressure at 50 °C	Not available *
Evaporation rate at 20 °C	Not available *
Product description	
Density at 20 °C	2281.8 kg/m ³
Relative density at 20 °C	2.282
Dynamic viscosity at 20 °C	Not available *
Kinematic viscosity at 20 °C	Not available *
Kinematic viscosity at 40 °C	Not available *
Concentration	Not available *
pH	4 (at 1 %)
Vapour density at 20 °C	Not available *
Partition coefficient n-octanol/water 20 °C	Not available *
Solubility in water at 20 °C	223 kg/m ³
Solubility properties	Not available *
Decomposition temperature	Not available *
Melting point/freezing point	Not available *
Flammability	
Flash point	Not available *
Flammability (solid, gas)	Not available *
Auto-ignition temperature	Not available *
Lower flammability limit	Not available *
Upper flammability limit	Not available *
Explosive (Solid)	
Lower explosive limit	Not available *
Upper explosive limit	Not available *
Particle characteristics	
Median equivalent diameter	Not available *
9.2 Other information	
Information with regard to physical hazard classes	
Explosive properties	Not available *
Oxidising properties	Not available *
Corrosive to metals	Not available *
Heat of combustion	Not available *
Aerosols-total percentage (by mass) of flammable components	Not available *
Other safety characteristics	
Surface tension at 20 °C	Not available *
Refraction index	Not available *
*Not available due to the nature of the product, not providing information property of its hazards.	
10. Stability and reactivity	
10.1 Reactivity	
Reactivity	No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.
10.2 Chemical stability	
Stability	Chemically stable under the indicated conditions of storage, handling and use.
10.3 Possibility of hazardous reactions	
Hazardous reactions	Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.



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10.4 Conditions to avoid

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products

Hazardous decomposition products	See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO ₂), carbon monoxide and other organic compounds.
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11. Toxicological information

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

The experimental information related to the toxicological properties of the product itself is not available
 In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure.

Acute toxicity: inhalation	Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
Acute toxicity: skin contact	Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for skin contact. For more information see section 3.
Acute toxicity: ingestion	The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
Skin corrosion/irritation	Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
Serious eye damage/irritation	Produces serious eye damage after contact.
Respiratory or skin sensitisation	- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3. - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
Germ cell mutagenicity	Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
Carcinogenicity	Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3. IARC: Not relevant.
Reproductive toxicity	Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Specific target organ toxicity – single exposure	Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
Specific target organ toxicity – repeated exposure	Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
Aspiration hazard	Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
Other information	Not relevant

Specific toxicology information on the substances

Identification	Acute toxicity	Genus
Copper sulphate pentahydrate CAS: 7758-99-8 EC: 231-847-6	LD50 oral LD50 dermal LC50 inhalation dust	481 mg/kg (ATE) >2,000 mg/kg -
Silicon dioxide (RCS < 1%) CAS: 7631-86-9 EC: 231-545-4	LD50 oral LD50 dermal LC50 inhalation dust	>5,000 mg/kg 5,100 mg/kg -

Acute Toxicity Estimate (ATE mix)

	ATE mix	Ingredient(s) of unknown toxicity
Oral	493.33 mg/kg (Calculation method)	0 %
Dermal	>2,000 mg/kg (Calculation method)	0 %
LC50 Inhalation dust	>5 mg/l (4 h) (Calculation method)	0 %

11.2 Information on other hazards

Endocrine disrupting properties	The product does not meet the criteria for endocrine-disrupting properties.
Other hazards	Not relevant.

12. Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Product-specific aquatic toxicity			
	Acute toxicity	Species	Genus
LC50	0.83 mg/l (96 h)	Not relevant	Fish
EC50	0 mg/l (48 h)	Not relevant	Crustacean
EC50	0.82 mg/l (72 h)	Not relevant	Algae

Acute toxicity				
Identification		Concentration	Species	Genus
Copper sulphate pentahydrate CAS: 7758-99-8 EC: 231-847-6	LD50	0.81 mg/l (96 h)	Cyprinus carpio	Fish
	EC50	0.003 mg/l (48 h)	-	-
	EC50	0.8 mg/l (72 h)	-	-
Silicon dioxide (RCS < 1%) CAS: 7631-86-9 EC: 231-545-4	LD50	5,000 mg/l (96 h)	Brachydanio rerio	Fish
	EC50	10,000 mg/l (24 h)	Daphnia magna	Crustacean
	EC50	440 mg/l (72 h)	Selenastrum capricornutum	Algae

Chronic toxicity					
Identification		Concentration	Species	Genus	
Copper sulphate pentahydrate		NOEC	>0.1 - 1 mg/l	-	Fish
CAS: 7758-99-8		NOEC	>0.1 - 1 mg/l	-	Crustacean
EC: 231-847-6					

12.2	Persistence and degradability		
Persistence and degradability		Not relevant.	

12.3	Bioaccumulative potential		
Substance-specific information			
Identification		Bioaccumulation potential	
Copper sulphate pentahydrate		BCF	-
CAS: 7758-99-8		POW log	-2.2
EC: 231-847-6		Potential	-

12.4	Mobility in soil		
Mobility		Not relevant.	

12.5	Results of PBT and vPvB assessment		
Assessment		Product does not meet PBT/vPvB criteria.	

12.6	Endocrine disrupting properties		
Endocrine disrupting potential		The product does not meet the criteria for endocrine-disrupting properties.	

12.7	Other adverse effects		
Other adverse effects		Not described.	

13. Disposal considerations			
13.1	Waste treatment methods		
Waste from residues / unused products		Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). Waste should not be disposed of to drains. See paragraph 6.2.	
European list of waste products			

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	It is not possible to assign a specific code, as it depends on the intended use by the user.	Hazardous

Type of waste (Regulation (EU) No 1357/2014):
HP14 Ecotoxic, HP6 Acute Toxicity, HP4 Irritant — skin irritation and eye damage.

Regulations related to waste management:
In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated.
Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014.

Removal of contaminated packaging	As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue.
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14. Transport information

Transport by road, by rail and inland waterway transport (ADR/RID/ADN)	14.1 UN-number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): 14.4 Packing group:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper sulphate pentahydrate) 9 III Labels: 9   Special regulations: 274, 335, 375, 601 Tunnel restriction code: - Limited quantities (LQ): 5 kg
Marine transport (IMDG)	14.1 UN-number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): 14.4 Packing group:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper sulphate pentahydrate) 9 III Labels: 9   Special regulations: 969, 335, 375, 274, 966, 967 EmS Codes: F-A, S-F Limited quantities (LQ): 5 kg Segregation group: Not relevant
Air transport (ICAO-IATA)	14.1 UN-number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): 14.4 Packing group:	UN3077 Environmentally hazardous substance, solid, n.o.s. (Copper sulphate pentahydrate) 9 III Labels: 9  
14.5 <u>Environmental hazards</u>		
Environmental hazard	Yes	
Marine pollutant	Yes	
14.6 <u>Special precautions for user</u>		
Physico-Chemical properties: see section 9.		
14.7 <u>Maritime transport in bulk according to IMO instruments</u>		
Not relevant.		

15. Regulatory information

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

Relevant EU rule(s)	Safety, health and environmental regulations/legislation specific for the substance or mixture: - Article 95, REGULATION (EU) No 528/2012: Copper sulphate pentahydrate (7758-99-8) - PT: (2) ; Silicon dioxide (RCS < 1%) (7631-86-9) - PT: (18) - Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant - List of Controlled Substances (ZDHC V3.1): Not relevant - Regulation (EU) 2019/1021 on persistent organic pollutants: Not relevant - Regulation (EU) No 2024/590, about substances that deplete the ozone layer: Not relevant - REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant - Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant
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Seveso III

Section	Description	Lower-tier requirements	Upper-tier requirements
E1	ENVIRONMENTAL HAZARDS	100	200

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Laboral exposure to respirable crystalline silica must be controlled in accordance with Directive (EU) 2022/431, of the European Parliament and of the Council, of March 9, 2022, amending Directive 2004/37/EC, relating to the protection of workers against risks related to exposure to carcinogens or mutagens during work.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

National regulations	The product could be affected by sectorial legislation.
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15.2 Chemical safety assessment

The supplier has not carried out evaluation of chemical safety.

16. Other information

Indication of changes (revised safety data sheet)	Alignment to regulation. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU. Restructuring and revising sections 1 to 15.
Sources of used key data	This information is based on the currently available information (Producer(s)). See also the website: https://chem.echa.europa.eu/
(EU)H-statement(s)	H302 Harmful if swallowed. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

Classification procedure	Eye Dam. 1: Calculation method Aquatic Acute 1: Calculation method Aquatic Chronic 1: Calculation method Acute Tox. 4: Calculation method
Advice related to training	Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.
List of abbreviations and acronyms	Acute Tox.: Acute toxicity. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADR/RID/ADN: Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways. Aquatic Acute: Hazardous to the aquatic environment, acute hazard. Aquatic Chronic: Hazardous to the aquatic environment, chronic hazard. ATE: Acute toxicity estimate. BCF: Bio-concentration factor. BLEVE: Boiling Liquid Expanding Vapour Explosion. Bw: Bodyweight. CAS: Chemical Abstracts Service. CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008. DGR: Dangerous Goods Regulations. DNEL: Derived No Effect Level. DMEL: Derived Minimal Effect Level. EC50: Effective Concentration 50%. EC-No.: The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union). EINECS: European Inventory of Existing Commercial Chemical Substances. ELINCS: European List of Notified Chemical Substances. Eye Dam.: Serious eye damage. Flam. Liq.: Flammable liquid. GHS: Globally Harmonized System of Classification and Labelling of Chemicals. IATA: International Air Transport Association (provisions concerning the international carriage of dangerous goods by air). IATA/DGR: Dangerous Goods Regulations (DGR) for the air transport (IATA). ICAO: International Civil Aviation Organization. ICAO-TI: Technical instructions for the safe transport of dangerous goods by air. IMDG: International Maritime Dangerous Goods Code. LC50: Lethal Concentration to 50 % of a test population. LD50: Lethal Dose to 50% of a test population. Log POW: n-Octanol/water. M-factor: Multiplication factor. OECD: Organisation for Economic Co-operation and Development. PBT: Persistent, Bioaccumulative and Toxic substance. PNEC: Predicted No Effect Concentration. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.

MSDS

Material Safety Data Sheet

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
SCL: Specific concentration limit.
SDS: Safety Data Sheet.
STOT SE: Specific target organ toxicity —single exposure.
SVHC: Substances of Very High Concern.
vPvB: Very Persistent and Very Bioaccumulative.

This information is to our knowledge correct and complete on the date of issue of this safety data sheet. The information only concerns the product and does not give any guarantee for the quality and the completeness of the properties of the product, or in case of mixing or using in any other process. It remains the responsibility of the user to assure himself that the information is suitable and complete concerning the special use he makes of the product.
Hofman Animal Care B.V. denies all responsibility for loss or damage resulting from the use of these data.

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