

MSDS MATERIAL SAFETY DATA SHEET		0.1 Product	Klauwcare
		0.2 Status	Active
		0.3 Version	2
		0.4 Version date	13-07-2021
1. Identification of the product and of the company			
1.1 Product identification			
Product name		Klauwcare	
Trade name		Klauwcare	
Article code		KLAU0001 KLAU0001F	
Chemical description		Mixture	
1.2 Relevant identified uses of the substance or mixture and uses advised against			
Identified use(s)		Care product for the claws of cattle and sheep.	
Use(s) advised against		Not identified.	
1.3 Details of the supplier of the safety data sheet			
Company identification		Name	Holland Animal Care B.V.
Contact		Address	De Leemkoele 2
		Zip code	7468 DM
		Town	Enter
		Country	The Netherlands
		Telephone	+31-(0)548-545520
		E-mail	info@hollandanimalcare.nl
		Website	www.hollandanimalcare.nl
1.4 Emergency telephone number			
Emergency telephone number		The Netherlands : National Poisoning Information Center - Bilthoven TEL: +31(0)30/274.88.88 Belgium : Antipoison Center - Brussels TEL: +32(0)70/245.245 (Only for the purpose of informing medical personnel in cases 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			

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Skin Irrit. 2; Skin irritation; category 2 ; H315 Eye Dam. 1; Serious eye damage; category 1; H318 Aquatic Acute 1; Acute danger to the aquatic environment; category 1; H400 Aquatic Chronic 1; Chronic danger to the aquatic environment; category 1; H410			
2.2	Label elements		
Labelling according to Regulation (EC) no. 1272/2008:			
Hazardous component(s)		Zinc sulphate hexahydrate Copper sulphate pentahydrate	
Hazard pictogram(s)		 GHS05  GHS07  GHS09	
Signal word		Danger	
Hazard statements		H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H410 Very toxic to aquatic life with long lasting effects.	
Precautionary measures		P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 IF SWALLOWED: call a POISON CENTER/doctor if you feel unwell. P302+P352 IF ON SKIN: wash with plenty of water and soap. P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/container in accordance with local and national regulations.	
2.3	Other hazards		
Hazards for the environment		This mixture does not meet the PBT/vPvB criteria of the REACH Regulation, Annex XIII.	

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3. Composition/information on ingredients							
3.2	Mixtures		Mixture of the following substances with nonhazardous additions.				
Name component(s)		weight %	CAS no.	EINECS no.	Index no.	Reach no.	Classification
Zinc sulphate hexahydrate		15 – 25 %	13986-24-8	231-793-3	030-006-00-9	01-2119474684-27-xxxx	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400; M=1 Aquatic Chronic 1; H410; M=1
Copper sulphate pentahydrate		1 – 10 %	7758-99-8	231-847-6	029-023-00-4	01-2119520566-40-xxxx	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400; M=10 Aquatic Chronic 1; H410; M=10
The full text of the (EU)H-statements can be found in section 16.							
4. First aid measures							
4.1	Description of first aid measures						
General			Consult a doctor in all cases. Never administer anything by mouth to an unconscious person.				
First aid measures in case of inhalation			Bring the victim into the fresh air. Keep the victim calm, in a half-sitting position. Protect from cooling. If not breathing or breathing irregularly, give artificial respiration. Immediately call a POISON CENTER or doctor.				
First aid measures in case of skin contact			Remove contaminated clothing. Immediately flush skin with plenty of water and soap (or shower if necessary). Consult a physician if irritation persists.				
First aid measures in case of eye contact			Immediately flush eyes with plenty of water for a long time (at least 15 minutes) with the eyelid open. Remove contact lenses, if possible. Immediately consult a POISON CENTER or doctor.				
First aid measures in case of ingestion			Immediately rinse mouth and drink plenty of water. If you feel unwell, consult a POISON CENTER or doctor.				
4.2	Most important symptoms and effects, both acute and delayed						
See section 11.							
4.3	Indication of any immediate medical attention and special treatment needed						
Treat symptomatically.							
5. Firefighting measures							
5.1	Extinguishing media						
Suitable extinguishing media			Extinguishing powder, foam, carbon dioxide (CO ₂), spray water.				

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Unsuitable extinguishing media		Strong water jet.	
5.2	Special hazards arising from the substance or mixture		
Special exposure hazards		In the event of fire, dangerous fire gases and vapours may be produced.	
5.3	Advice for firefighters		
Special protective equipment		Wear a self-contained breathing apparatus and protective clothing.	
Special procedures		Use (misted) water to cool neighbouring packages and structures. Prevent extinguishing water from entering the environment.	
6. Accidental release measures			
6.1	Personal precautions, protective equipment and emergency procedures		
Personal precautions		For non-emergency personnel: Immediately evacuate contaminated areas and provide adequate ventilation. Avoid inhalation of the product and contact with eyes and skin. For emergency responders: Wear suitable personal protective equipment (see section 8).	
6.2	Environmental precautions		
Environmental precautions		Prevent the product from entering open water, sewage systems or the soil.	
6.3	Methods and material for containment and cleaning up		
Methods for cleaning up		Collect spilt product in closable waste containers. Clean up spillage as soon as possible by means of an inert absorbent product (sand, universal binder). Flush residue with plenty of water.	
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		Avoid inhalation of the product and contact with eyes and skin. Wear suitable personal protective equipment (see section 8). When using do not eat, drink or smoke. Wash hands before and after handling the product. Safety eye washers and emergency showers should be provided in the immediate vicinity of any possible source of exposure. Ensure adequate ventilation.	
7.2	Conditions for safe storage, including any incompatibilities		

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Storage		Store only in the original, tightly closed container in a dry, cool, dark, well-ventilated place.	
7.3	<u>Specific end use(s)</u>		
For identified uses, see section 1.2.			
8. Exposure controls/personal protection			
8.1	<u>Control parameters</u>		
Occupational exposure limits		Copper sulphate pentahydrate (CAS-no. 7758-99-8):	
		Limit value (TWA, 8h):	1 mg/m³
DNELs		Zinc sulphate hexahydrate (CAS-no. 13986-24-8):	
		DNEL workers and consumers:	
		Oral, systemic effects, long-term, Zn soluble:	0.83 mg Zn/kg BW/d
		Oral, systemic effects, long-term, Zn insoluble:	0.83 mg Zn/kg BW/d
		Dermal, systemic effects, long-term, Zn soluble:	8.3 mg Zn/kg BW/d
		Dermal, systemic effects, long-term, Zn insoluble:	83 mg Zn/kg BW/d
		Worker, inhalation, systemic effects, long-term, Zn soluble:	1 mg Zn/m³
		Worker, inhalation, systemic effects, long-term, insoluble:	5 mg Zn/m³
		Consumer, inhalation, systemic effects, long-term, Zn soluble:	1.3 mg Zn/m³
		Consumer, inhalation, systemic effects, long-term, Zn insoluble:	2.5 mg Zn/m³
		Copper sulphate pentahydrate (CAS-no. 7758-99-8):	
		Worker, oral, systemic effects, long-term:	0.4 mg Cu/kg BW/d
		Worker, dermal, local effects, acute:	1 mg Cu/kg BW/d
		Worker, dermal, systemic effects, long-term:	137 mg Cu/kg BW/d
		Worker, inhalation, local effects, long-term:	1 mg Cu/m³
Worker, inhalation, systemic effects, long-term:	1 mg Cu/m³		
Consumer, oral, systemic effects, acute:	0.082 mg Cu/kg LG/d		
Consumer, oral, systemic effects, long-term:	0.041 mg Cu/kg LG/d		

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PNECs		Zinc sulphate hexahydrate (CAS-no. 13986-24-8):	
		Fresh water:	20.6 µg Zn/l
		Sea water:	6.1 µg Zn/l
		Sediment, fresh water:	235.6 mg Zn/kg
		Sediment, sea water:	113 mg Zn/kg
		Soil:	106.8 mg Zn/kg
		Sewage treatment plant:	52 µg Zn/l
		Copper sulphate pentahydrate (CAS-no. 7758-99-8):	
		Fresh water:	7.8 µg Cu/l
		Sea water:	5.2 µg Cu/l
		Sediment, fresh water:	87 mg Cu/kg
		Sediment, sea water:	676 mg Cu/kg
		Soil:	65 mg Cu/kg
		Sewage treatment plant:	230 µg Cu/l
8.2	Exposure controls		
Engineering measures		Ventilation, local exhaust ventilation with appropriate filter.	
Personal protection equipment			
Eye / face protection		Close-fitting safety goggles according to EN 166.	
Skin protection		Wear suitable protective clothing.	
Hand protection		Protective gloves according to EN 374. Material of gloves: nitrile rubber. Thickness: 0.35 mm. Breakthrough time: >480 min. As the product is a mixture of different substances, the durability of the glove material cannot be calculated in advance and has to be tested before use.	
Respiratory protection		In case of dust formation: particle filter device P2 according to EN 143.	
Environmental exposure controls		See sections 6, 7, 12 and 13.	
Thermal hazards		No further relevant information available.	
9. Physical and chemical properties			
9.1	Information on basic physical and chemical properties		
Physical state		Liquid	
Colour		Black	
Odour		Characteristic	
Melting / freezing point		Not determined.	
Boiling point / range (1013 hPa)		Not determined.	

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Flammability	Not determined.		
Explosion limits	Not determined.		
Flash point	Not determined.		
Auto-ignition temperature	Not determined.		
Decomposition temperature	Not determined.		
pH	Not determined.		
Kinematic viscosity	Not determined.		
Solubility	Soluble in water.		
Partition coefficient n-octanol/water	Not determined.		
Vapour pressure	Not determined.		
Density or relative density	Not determined.		
Relative vapour density	Not determined.		
Particle characteristics	Not determined.		
9.2	<u>Other information</u>		
Other information	No further relevant information available.		
10.	Stability and reactivity		
10.1	<u>Reactivity</u>		
Reactivity	No known hazardous reactions under normal storage conditions.		
10.2	<u>Chemical stability</u>		
Stability	The product is stable under normal storage conditions.		
10.3	<u>Possibility of hazardous reactions</u>		
Hazardous reactions	No further relevant information available.		
10.4	<u>Conditions to avoid</u>		
Conditions to avoid	Protect against high temperatures.		
10.5	<u>Incompatible materials</u>		
Materials to avoid	No further relevant information available.		
10.6	<u>Hazardous decomposition products</u>		
Hazardous decomposition products	Sulphur oxides, copper oxides, hydrogen sulphide.		

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11. Toxicological information			
11.1	Information on hazard classes as defined in Regulation (EC) No. 1272/2008		
Acute toxicity	Zinc sulphate hexahydrate (CAS-no. 13986-24-8):		
	LD ₅₀ (rat, oral):	862 – 4 429 mg/kg	
	LD ₅₀ (rat, dermal):	> 2 000 mg/kg	
	Copper sulphate pentahydrate (CAS-no. 7758-99-8):		
	LD ₅₀ (rat, oral):	482 mg/kg	
	LD ₅₀ (rat, dermal):	> 2 000 mg/kg	
Skin corrosion / irritation	Causes skin irritation.		
Serious eye damage / irritation	Causes serious eye damage.		
Aspiration hazard	Based on the available data, the classification criteria are not met.		
Respiratory or skin sensitisation	Based on the available data, the classification criteria are not met.		
Carcinogenicity	Based on the available data, the classification criteria are not met.		
Mutagenicity	Based on the available data, the classification criteria are not met.		
Reproductive toxicity	Based on the available data, the classification criteria are not met.		
Specific target organ toxicity – single exposure	Based on the available data, the classification criteria are not met.		
Specific target organ toxicity – repeated exposure	Based on the available data, the classification criteria are not met.		
11.2	Information on other hazards		
Other hazards	No further relevant information available.		
12. Ecological information			
12.1	Toxicity		
Ecotoxicity	Zinc sulphate hexahydrate (CAS-no. 13986-24-8):		
	EC ₅₀ (Ceriodaphnia dubia, 48h):	1.70 mg Zn/l (pH < 7)	
	EC ₅₀ (Selenastrum capricornutum, 72h):	0.56 mg Zn/l (pH > 7)	
	Copper sulphate pentahydrate (CAS-no. 7758-99-8):		
	LC ₅₀ (fish, 96h):	No data available.	
	EC ₅₀ (Daphnia magna, 48h):	25 µg Cu/l (pH 5.5 – 6.5)	
	NOEC (fish, 96h):	No data available.	
	NOEC (algae, 72h):	No data available.	
	NOEC (Dahpnia magna, 48h):	No data available.	

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12.2	<u>Persistence and degradability</u>		
Persistence and degradability		No further relevant information available.	
12.3	<u>Bioaccumulation</u>		
Bioaccumulation		No significant bioaccumulation is expected.	
12.4	<u>Mobility in soil</u>		
Mobility		Slightly mobile in soil types.	
12.5	<u>Results of PBT and vPvB assesment</u>		
Evaluation		This mixture does not meet the PBT/vPvB criteria of the REACH Regulation, Annex XIII.	
12.5	<u>Endocrine disrupting properties</u>		
Endocrine disrupting potential		No further relevant information available.	
12.6	<u>Other adverse effects</u>		
Other adverse effects		Do not discharge into the sewage system and/or groundwater and/or open water.	
13. Disposal considerations			
13.1	<u>Waste treatment methods</u>		
Waste from residues / unused products		The product must be disposed of in accordance with local and national legal provisions, by a legally authorised disposer of hazardous waste.	
Removal of contaminated packaging		Disposal in accordance with local and national regulations.	
14. Transport information			
Land transport (ADR/RID)		14.1 UN number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): 14.4 Packing group:	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (contains zinc sulfate hexahydrate and copper(II) sulfate pentahydrate) 9 III Danger label: 9   Classification code: M6 Special provisions: 274 335 375 601 Limited quantities (LQ): 5 L Excepted quantities: E1 Transport category: 3

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		Hazard identification number : 90 Tunnel restriction code: -	
Inland waterway transport (ADN)	<u>14.1 UN number:</u> <u>14.2 UN proper shipping name:</u> <u>14.3 Transport hazard class(es):</u> <u>14.4 Packing group:</u>	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (contains zinc sulfate hexahydrate and copper(II) sulfate pentahydrate) 9 III Danger label: 9   Classification code: M6 Special provisions: 274 335 375 601 Limited quantities (LQ): 5 L Excepted quantities: E1	
Marine transport (IMDG)	<u>14.1 UN number:</u> <u>14.2 UN proper shipping name:</u> <u>14.3 Transport hazard class(es):</u> <u>14.4 Packing group:</u>	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (contains zinc sulfate hexahydrate and copper(II) sulfate pentahydrate) 9 III Danger label: 9   EmS: F-A, S-F Special provisions: 274 335 966 967 969 Limited quantities (LQ): 5 L Excepted quantities: E1	
Air transport (IATA)	<u>14.1 UN number:</u> <u>14.2 UN proper shipping name:</u> <u>14.3 Transport hazard class(es):</u> <u>14.4 Packing group:</u>	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (contains zinc sulfate hexahydrate and copper(II) sulfate pentahydrate) 9 III Danger label: 9  	

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14.5	Environmental hazards		
Environmentally hazard		Yes	
Marine pollutant		Yes	
14.6	Special precautions for user		
Special precautions		No further relevant information available.	
14.7	Maritime transport in bulk according to IMO instruments		
Maritime transport in bulk		Not applicable.	
15. Regulatory information			
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture		
Relevant EU rule(s)		Regulation EU (No) 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EU) 1907/2006: no constituents listed. Regulation (EU) 2019/1148: None of the ingredients are listed. Does not contain any substances regulated by Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals. Does not contain any substances covered by Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.	
National regulations		The Netherlands:	
		Water hazardousness: B, degradable, water hazardous substances	
		Germany:	
		WGK: 3, strongly hazardous for water.	
15.2	Chemical Safety Assessment		
A chemical safety assessment has not been carried out.			
16. Other information			
Sources of used key data		This information is based on currently available data. Supplier information and data from the European Chemicals Agency (ECHA) Database of Registered Substances were used to compile this Safety Data Sheet.	
Classification procedure		The summation method was used to calculate the classification of the mixture.	
(EU)H-statement(s)		H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.	

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List of abbreviations and acronyms	Acute Tox.: Acute toxicity. ADN (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieur): European convention on the international carriage of dangerous goods by inland waterways. ADR (Accord européen relatif au transport international des marchandises dangereuses par route): European convention on the international carriage of dangerous goods by road. Aquatic Acute: Acute toxic to the aquatic environment. Aquatic Chronic: Chronic toxic to the aquatic environment. CAS: Chemical Abstracts Service. CLP: Classification, Labelling and Packaging (Regulation (EC) no. 1272/2008). DNEL: derived no effect level. EC₅₀: median effective concentration. EINECS: European Inventory of Existing Commercial Chemical Substances. EN: European standard. Eye Dam.: Serious eye damage. Eye Irrit.: Serious eye irritation. GHS: Globally Harmonized System of Classification and Labelling of Chemicals. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods code. IMO: International Maritime Organisation. LC₅₀: concentration that causes death in 50% of a test population (median lethal concentration). LD₅₀: dose that results in death in 50% of a test population (median lethal dose). NVIC (Nationaal Vergiftigingen Informatie Centrum): National Poison Information Centre. PBT: persistent, bioaccumulative and toxic. PNEC: Predicted No Effect Level. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) no. 1907/2006). RID: Regulations concerning the International carriage of Dangerous goods by rail. Skin Irrit.: Skin corrosion/irritation. TWA: time-weighted average. 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.

Holland Animal Care B.V. denies all responsibility for loss or damage resulting from the use of these data.

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