

MSDS MATERIAL SAFETY DATA SHEET		0.1 Product	<i>Equi Hoof Zinc Paste</i>
		0.2 Status	Active
		0.3 Version	2
		0.4 Version date	18-06-2021
1. Identification of the product and of the company			
1.1 <u>Product identification</u>			
Product name		<i>Equi Hoof Zinc Paste</i>	
Trade name		<i>Equi Hoof Zinc Paste</i>	
Article code		EQUI0026E	
Chemical description		Mixture	
1.2 <u>Relevant identified uses of the substance or mixture and uses advised against</u>			
Identified use(s)		Care product for horses' hooves. Professional use.	
Use(s) advised against		Not identified.	
1.3 <u>Details of the supplier of the safety data sheet</u>			
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 <u>Emergency telephone number</u>			
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 <u>Classification of the substance or mixture</u>			
Classification according to Regulation (EC) no. 1272/2008: Acute Tox. (oral) 4; Acute toxicity (oral); category 4; H302 Skin Irrit. 2; Skin corrosion/irritation; category 2; H315			

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Skin Sens. 1; Skin sensitisation; category 1; H317 Eye Dam. 1; Serious eye damage/irritation; category 1; H318 Aquatic Chronic 2; Hazardous to the aquatic environment – chronic; category 2; H411			
2.2	Label elements		
Labelling according to Regulation (EC) no. 1272/2008:			
Hazardous component(s)		Zinc oxide; L-(+)-lactic acid; Reaction mass of 2,2'-iminodi(ethylamine) and copper sulphate; Reaction mass of 3,6,9-triazaundecamethylenediamine and copper sulphate; Reaction mass of copper sulphate and trientine; Tea tree oil	
Hazard pictogram(s)			
Signal word		Danger	
Hazard statements		H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects.	
Precautionary measures		P273 Avoid release to the environment. P280 Wear protective gloves / eye protection / face protection. P302+P352 Take off immediately all contaminated clothing and wash it before reuse. P305+P351+P338+P310 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. P362+P364 Take off contaminated clothing and wash it before reuse. P501 Dispose of contents/container in accordance with local/national regulations.	
2.3	Other hazards		
Hazards for the environment		Results of the PBT and vPvB assessment: PBT: not applicable. vPvB: not applicable.	

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3. Composition/information on ingredients

3.2 Mixtures

Mixture of substances listed below with non-hazardous additions.

Name component(s)	weight %	CAS no.	EINECS no.	Index no.	Reach no.	Classification
Zinc oxide	10-20%	1314-13-2	215-222-5	030-013-00-7	01-2119463881-32-xxxx	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M=1
Sodium propionate	≤2%	137-40-6	205-290-4		01-2120757184-52-xxxx	Eye Irrit. 2; H319
Reaction mass of 3,6,9-triazaundecamethylamine and copper sulphate	≤2%		907-262-3		01-2120773696-37-xxxx	Acute Tox. 3 (oral); H301 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 2; H411
Reaction mass of 2,2'-iminodi(ethylamine) and copper sulphate	≤2%		906-875-3		01-2120773695-39-xxxx	Acute Tox. 3 (oral); H301 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 2; H411
Reaction mass of copper sulphate and trientine	≤2%		907-126-3		01-2120773697-35-xxxx	Acute Tox. 3 (oral); H301 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 2; H411
L-(+)-lactic acid	≤2%	79-33-4	201-196-2		01-2119474164-39-xxxx	Skin Irrit. 2; H315 Eye Dam. 1; H318
Tea tree oil	≤2%	85085-48-9	285-377-1		01-2120743651-57-xxxx	Flam. Liq. 1; H226 Acute Tox. 4 (oral); H302 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Dam. 1; H318 Aquatic Chronic 2; H411

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	Never administer anything by mouth to an unconscious person. If in doubt or if symptoms persist, consult a doctor.
First aid measures in case of inhalation	Remove the person to fresh air and ensure they can breathe easily. If in doubt or if symptoms persist, consult a doctor.
First aid measures in case of skin contact	Wash the skin with plenty of water. Remove contaminated clothing. In case of skin irritation or rash: consult a doctor.

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First aid measures in case of eye contact		Rinse opened eye for several minutes (15 minutes) under running water. Remove contact lenses, if present, and rinse eyes further. Immediately consult a POISON CENTER/doctor.	
First aid measures in case of ingestion		Rinse mouth. Do NOT induce vomiting. If unconscious, place the victim in a stable side position. Immediately consult a POISON CENTER/doctor.	
4.2	Most important symptoms and effects, both acute and delayed		
Symptoms/effects after skin contact		Irritation. May cause an allergic skin reaction.	
Symptoms/effects after eye contact		Serious eye damage.	
4.3	Indication of any immediate medical attention and special treatment needed		
No further relevant information available.			
5. Firefighting measures			
5.1	Extinguishing media		
Suitable extinguishing media		Water mist. Alcohol-resistant foam. Dry powder. Carbon dioxide (CO ₂). Sand. Match fire-fighting measures to surroundings.	
Unsuitable extinguishing media		Do not use a strong water jet.	
5.2	Special hazards arising from the substance or mixture		
Special exposure hazards		Zinc oxide may react explosively when heated. Dangerous gases may be released at high temperatures.	
5.3	Advice for firefighters		
Special protective equipment		Firefighters should wear full protective clothing and a self-contained breathing apparatus. Do not enter the fire zone without suitable protective equipment.	
Special procedures		Cool exposed containers with water spray or water mist. Use extreme caution when fighting a chemical fire. Collect extinguishing water. Do not allow to enter waterways or drains.	
6. Accidental release measures			
6.1	Personal precautions, protective equipment and emergency procedures		
General		Ensure adequate ventilation. Wear personal protective equipment. Immediately isolate the spillage area. Do not touch or walk through spilt material. The surface may become slippery after spillage.	
For persons other than the emergency services		Protective equipment: Wear protective clothing, protective gloves and safety glasses. Emergency procedures: Avoid contact with skin and eyes. Avoid inhalation of vapour. Remove non-emergency personnel.	

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For emergency services		Protective equipment: Equip clean-up personnel with appropriate protection. Emergency procedures: Ventilate the area.	
6.2	Environmental precautions		
Environmental precautions		Prevent material from entering sewers or public waters. Inform the authorities if the liquid enters a sewerage system or open water.	
6.3	Methods and material for containment and cleaning up		
Methods for cleaning up		Absorb with liquid-binding material (sand, diatomaceous earth, acid binder or universal binder). Sweep up and scoop up all spillages, contaminated soil and other contaminated materials and place in a container for disposal. Store separately from other material.	
Other information		Ensure adequate ventilation.	
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		Ensure adequate ventilation in the processing area to avoid formation of vapours. Avoid contact with skin and eyes. Avoid inhalation of vapours. Wash contaminated clothing before reuse. Do not leave the working area if contaminated. After handling, wash hands and other exposed skin parts thoroughly with water and mild soap. Do not eat, drink or smoke when handling the product.	
7.2	Conditions for safe storage, including any incompatibilities		
Storage		Store only in the original packaging. Store in a cool, well-ventilated place between 5 and 30°C.	
Protection against fire and explosion		Avoid excessive heating.	
7.3	Specific end use(s)		
See section 1.2 for identified uses of the mixture and uses advised against.			
8. Exposure controls/personal protection			
8.1	Control parameters		
Occupational exposure limits		No additional information available.	
Recommended monitoring procedures		No additional information available.	
Formed air pollutants		No additional information available.	

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DNELs		In case of dust formation. Zinc oxide (CAS no. 1314-13-2):	
		Long-term exposure (inhalation dust, systemic effects):	4 mg/m³
8.2	Exposure controls		
Engineering measures		Ensure that the workplace is properly ventilated. Eyewash station.	
Personal protection equipment			
General protection and health measures		The usual precautions for handling chemicals should be observed. Do not eat, drink or smoke when using. Avoid contact with eyes and skin. Wash hands immediately after handling this product and before leaving the work area. Remove contaminated clothing immediately.	
Eye / face protection		When refilling, the use of safety goggles with side protection or face shield (EN 166) is recommended.	
Skin protection		Wear suitable protective work clothing to avoid skin contact. Depending on the activity and possible exposure, body protection should be chosen, e.g. apron, protective boots, chemical protection suit (according to EN 14605 in case of splashes).	
Hand protection		When handling chemicals, only wear suitable chemical protective gloves (EN 374), even in case of prolonged direct contact. Recommendation: Protection index 6, corresponding to >480 minutes permeation according to EN 374), e.g. nitrile rubber (≥0.4 mm), chloroprene rubber (≥0.5 mm) and butyl rubber (≥0.7 mm). The selection of a suitable glove depends not only on the material, but also on other quality characteristics and varies from manufacturer to manufacturer. The exact penetration time can be found out from the glove manufacturer; please bear this in mind. Gloves should be replaced after each use and with all traces of wear or perforation.	
Respiratory protection		Not necessary under normal conditions of use. In case of insufficient ventilation, use a safety mask with a suitable gas filter (type A1 according to EN 14387). Recommended: filter A (brown).	
Environmental exposure controls		Avoid further leaks and spills if safe to do so. Do not allow product to enter sewers or open waterways. Inform the authorities if this product enters a sewerage system or open water. For containment and cleaning-up methods, see section 6.3.	
Thermal hazards		No further information available.	
9. Physical and chemical properties			
9.1	Information on basic physical and chemical properties		
Physical state		Paste	

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Colour	Grey-blue		
Odour	Characteristic		
Odour threshold	Not available.		
Melting / freezing point	Not available.		
Boiling point / range (1013 hPa)	Not available.		
Flammability	Not available.		
Explosive properties	Zinc oxide may react explosively when heated.		
Explosion limits	Lower: not available.. Upper: not available.		
Flash point	Not available.		
Auto-ignition temperature	The product does not auto-ignite.		
Decomposition temperature	Not available.		
pH	>5		
Viscosity	Dynamic: not available. Kinematic: not available.		
Solubility	Moderately soluble in water.		
Partition coefficient n-octanol/water	Not available.		
Vapour pressure	Not available.		
Density	1.28 g/cm³		
Relative vapour density	Not available.		
Evaporation rate	Not available.		
9.2	Other information		
Other information		No further relevant information available.	
10. Stability and reactivity			
10.1	Reactivity		
Reactivity		Stable under normal conditions.	
10.2	Chemical stability		
Stability		Stable under normal conditions.	

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10.3	<u>Possibility of hazardous reactions</u>		
Hazardous reactions		No hazardous reactions known under normal conditions.	
10.4	<u>Conditions to avoid</u>		
Conditions to avoid		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		At high temperatures, carbon monoxide, carbon dioxide and metal oxide vapours can be generated.	
11. Toxicological information			
11.1	<u>Information on hazard classes as defined in Regulation (EC) No. 1272/2008</u>		
Test data is not available for the complete mixture. The method for classifying the mixture is based on the individual components in the mixture (summation method).			
Acute toxicity	Acute toxicity (oral):		Harmful if swallowed.
	Acute toxicity (dermal):		Not classified.
	Acute toxicity (inhalation):		Not classified.
	Equi Hoof Zinc Paste		
	ATE (oral)		1562.5 mg/kg bodyweight
	Zinc oxide (CAS no. 1314-13-2):		
	LD ₅₀ (oral, mouse):		7 950 mg/kg bodyweight
	Sodium propionate (CAS no. 137-40-6):		
	LD ₅₀ (oral, rat):		6 500 mg/kg bodyweight
	LD ₅₀ (dermal, rabbit):		2 000 mg/kg bodyweight
	Reaction mass of 3,6,9-triazaundecamethylenediamine and copper sulphate):		
	LD ₅₀ (oral, rat):		300 mg/kg bodyweight
	L-(+)-lactic acid (CAS no. 79-33-4):		
	LD ₅₀ (oral, rat, female):		3 543 mg/kg bodyweight
	LD ₅₀ (dermal, rabbit):		2 000 mg/kg bodyweight
LC ₅₀ (inhalation, rat, 4h):		7.94 mg/L	
Reaction mass of copper sulphate and trientine:			
LD ₅₀ (oral, rat):		300 mg/kg bodyweight	

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	Reaction mass of 2,2'-iminodi(ethylamine) and copper sulphate:	
LD ₅₀ (oral, rat):	300 mg/kg bodyweight	
Tea tree oil (CAS no. 85085-48-9):		
LD ₅₀ (oral, rat): LD ₅₀ (dermal, rabbit): LC ₅₀ (inhalation, rat, female, 4h):	1 691 mg/kg bodyweight > 2 000 mg/kg 4.29 mg/L	
Skin corrosion / irritation	Causes skin irritation. pH: >5 (at 20°C).	
Serious eye damage / irritation	Causes serious eye damage. pH: >5 (at 20°C).	
Aspiration hazard	Not classified.	
Respiratory or skin sensitisation	May cause an allergic skin reaction.	
Carcinogenicity	Not classified.	
Mutagenicity	Not classified.	
Reproductive toxicity	Not classified.	
Specific target organ toxicity – single exposure	Not classified.	
Specific target organ toxicity – repeated exposure	Not classified.	
11.2	Information on other hazards	
Other hazards	No further relevant information available.	
12. Ecological information		
12.1	Toxicity	
Ecotoxicity	Ecotoxicity – general:	Toxic to aquatic life with long lasting effects.
	Danger to the aquatic environment (acute), short term:	Not classified.
	Danger to the aquatic environment (chronic), long term:	Toxic to aquatic life with long lasting effects.
	Zinc oxide (CAS no. 1314-13-2):	
	LC ₅₀ (Daphnia magna, 48h):	0.098 mg/L

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<i>Sodium propionate (CAS no. 137-40-6):</i>		
EC ₅₀ (algae, 72h):		80.6 mg/L
EC ₅₀ (other aquatic organisms):		100 mg/L
<i>Reaction mass of 3,6,9-triazaundecamethylenediamine and copper sulphate:</i>		
EC ₅₀ (algae, 72h):		5.01 mg/L
EC ₅₀ (other aquatic organisms)		3.12 mg/L
<i>L-(+)-lactic acid (CAS no. 79-33-4):</i>		
LC ₅₀ (fish):		130 – 320 mg/L
EC ₅₀ (crustaceans):		130 – 250 mg/L
EC ₅₀ (algae, 72h):		2.8 – 3.5 g/L
<i>Reaction mass of copper sulphate and trientine:</i>		
EC ₅₀ (algae, 72h):		5.01 mg/L
EC ₅₀ (other aquatic organisms):		3.12 mg/L
<i>Reaction mass of 2,2'-imonodi(ethylamine) and copper sulphate:</i>		
EC ₅₀ (algae, 72h):		5.01 mg/L
EC ₅₀ (other aquatic organisms):		3.12 mg/L
<i>Tea tree oil (CAS no. 85085-48-9):</i>		
EC ₅₀ (fish, 96h):		7.75 mg/L
EC ₅₀ (Daphnia magna, 48h):		13.6 mg/L
EC ₅₀ (algae, 96h) :		35.9 mg/L
12.2	<u>Persistence and degradability</u>	
Persistence and degradability	Not readily biodegradable.	
12.3	<u>Bioaccumulation</u>	
Bioaccumulation	Equi Hoof Zinc Paste	
	Partition coefficient n-octanol/water:	Not determined.
	<i>Zinc oxide (CAS no. 1314-13-2):</i>	
	Partition coefficient n-octanol/water:	Not applicable.
	<i>Sodium propionate (CAS no. 137-40-6):</i>	
	Partition coefficient n-octanol/water:	Log Pow: -3.23
	<i>Reaction mass of 3,6,9-triazaundecamethylenediamine and copper sulphate):</i>	
	Partition coefficient n-octanol/water:	Log Kow (20°C): -7.63

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		L-(+)-lactic acid (CAS no. 79-33-4):	
Partition coefficient n-octanol/water:		Log Pow (20-25°C): -0.72 - -0.54	
Reaction mass of copper sulphate and trientine:			
Partition coefficient n-octanol/water:		Log Kow (20°C): -6.78	
Reaction mass of 2,2'-imonodi(ethylamine) and copper sulphate:			
Partition coefficient n-octanol/water:		Log Kow (20°C): -5.39	
12.4	Mobility in soil		
Mobility		No further relevant information available.	
12.5	Results of PBT and vPvB assesment		
Evaluation		L-(+)-lactic acid (CAS no. 79-33-4): This substance/mixture does not meet the PBT criteria of the REACH Regulation, Annex XIII. This substance/mixture does not meet the vPvB criteria of the REACH Regulation, Annex XIII.	
12.5	Endocrine disrupting properties		
Endocrine disrupting potential		No further relevant information available.	
12.6	Other adverse effects		
Other adverse effects		Avoid release to the environment.	
13. Disposal considerations			
13.1	Waste treatment methods		
Recommendations for disposal of products/packaging		Disposal in accordance with legal requirements. Dispose of safely at a suitable disposal site in accordance with local/national regulations.	
Additional information		Must not be disposed of with household waste. Do not allow to enter drains. Suitable cleaning agent: Clean with water and a cleaning agent.	
Ecology – waste		Avoid release to the environment.	
14. Transport information			
14.1	UN-number		
UN-number		UN 3077	
14.2	UN proper shipping name		
Proper shipping name		Environmentally hazardous substance, solid, n.o.s. (zinc oxide)	

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14.3 <u>Transport hazard class(es)</u>			
Class		9 	
14.4 <u>Packing group</u>			
Packing group		III	
14.5 <u>Environmental hazards</u>			
Environmentally hazard		Yes	
14.6 <u>Special precautions for user</u>			
Special precautions		Limited quantities: 5 kg Exempted quantities: E1 Classification code: M7 Tunnel code: 3 (-) Special provisions: 274 335 375 601	
14.7 <u>Maritime transport in bulk according to IMO instruments</u>			
Maritime transport in bulk		Not applicable.	
15. <u>Regulatory information</u>			
15.1 <u>Safety, health and environmental regulations/legislation specific for the substance or mixture</u>			
Relevant EU rule(s)		Directive 2012/18/EU: Hazardous substances listed by name – ANNEX 1: None of the components is listed. Regulation (EC) No. 1907/2006 Annex XVII: Restriction on use: 3 Regulation (EC) No. 2019/1148 Annex I: None of the components is listed. Does not contain any substances from the candidate list of REACH. Does not contain any substances listed in Annex XIV of REACH. Does not contain any substances covered 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 ABM category: SZW-list of carcinogenic substances: SZW list of mutagenic substances: NON-limitative list of substances toxic for reproduction - breast feeding: B(2) - toxic to aquatic organisms None of the components are present. None of the components are present. None of the components are present.	

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		NON-limitative list of substances toxic for fertility - Fertility:	None of the components are present.
		NON-limitative list of substances toxic for reproduction - Development:	None of the components are present.
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)	H226 Flammable liquid and vapour. H301 Toxic if swallowed. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.		
List of abbreviations and acronyms	Acute Tox.: Acute toxicity. ADN (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieure): 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. ATE: acute toxicity estimate. CAS: Chemical Abstracts Service. CLP: Classification, Labelling and Packaging (Regulation (EC) no. 1272/2008). DNEL: derived no effect level. EC ₅₀ : 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. LC ₅₀ : concentration that causes death in 50% of a test population (median lethal concentration). LD ₅₀ : dose that results in death in 50% of a test population (median lethal dose). LOAEL: lowest observed adverse effect level. NVIC: Nationaal Vergiftigingen Informatie Centrum (National Poison Center).		

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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. Skin Sens.: Skin sensibilisation. STOT SE: specific target organ toxicity – single exposure. 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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