



MSDS

Material Safety Data Sheet

MSDS MATERIAL SAFETY DATA SHEET		0.1 Product	GreenClear
		0.2 Status	Active
		0.3 Version	4
		0.4 Version date	29-11-2024
1. Identification of the substance/mixture and of the company			
1.1 Product identification			
Product name		GreenClear	
Trade name		GreenClear Concentrate	
Product code		GREE05000	
Chemical description		Mixture	
UFI		7E00-V04G-E003-CN7P	
REACH registration number		-	
1.2 Relevant identified uses of the substance or mixture and uses advised against			
Identified use(s)		Concentrated cleaning agent. Dilute with water. Use only outdoors or in a well-ventilated area.	
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 Center – Utrecht TEL: +31 (0) 88 755 8000 Belgium: Antipoison Center – 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: Met. Corr. 1: Substance or mixture corrosive to metals, category 1; H290 Eye Irrit. 2: Serious eye irritation, category 2; H319 Aquatic Chronic 3: Hazardous to the aquatic environment (chronic), category 3; H412 The full text of the (EU)H-statements can be found in section 16.			
Adverse physicochemical, health and environmental effects: May be corrosive to metals. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.			

2.2	Label elements						
Labelling according to Regulation (EC) no. 1272/2008:							
Hazardous component(s)	-						
Hazard pictogram(s)							
Signal word	Warning						
Hazard statements	H290 May be corrosive to metals. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.						
Precautionary measures	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P234 Keep only in original packaging. P264 Wash hands thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P501 Dispose of contents/container to hazardous or special waste collection point in accordance with local, regional, national and/or international regulations.						
Additional sentences	Components GHS labelling, including hazard statements not applicable for ready-to-use solutions.						
Child-resistant fastenings	Not applicable.						
Tactile warning	Not applicable.						
2.3	Other hazards						
Other hazards that do not result in classification.	None known.						
Results of PBT and vPvB assessment: Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII.							
<table border="1"> <thead> <tr> <th colspan="2">Component</th></tr> </thead> <tbody> <tr> <td>Substance(s) do not meet the PBT criteria of REACH Regulation, in accordance with Annex XIII</td><td>(2-methoxymethylethoxy)propanol (34590-94-8), 2,2'-IMINODIETHANOL, DIETHANOLAMINE (111-42-2), Amines, N-C12-C14(even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid (139734-65-9)</td></tr> <tr> <td>Substance(s) do not meet the vPvB criteria of REACH Regulation, in accordance with Annex XIII</td><td>(2-methoxymethylethoxy)propanol (34590-94-8) 2,2'-IMINODIETHANOL, DIETHANOLAMINE (111-42-2), Amines, N-C12-C14(even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid (139734-65-9)</td></tr> </tbody> </table>		Component		Substance(s) do not meet the PBT criteria of REACH Regulation, in accordance with Annex XIII	(2-methoxymethylethoxy)propanol (34590-94-8), 2,2'-IMINODIETHANOL, DIETHANOLAMINE (111-42-2), Amines, N-C12-C14(even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid (139734-65-9)	Substance(s) do not meet the vPvB criteria of REACH Regulation, in accordance with Annex XIII	(2-methoxymethylethoxy)propanol (34590-94-8) 2,2'-IMINODIETHANOL, DIETHANOLAMINE (111-42-2), Amines, N-C12-C14(even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid (139734-65-9)
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Endocrine disrupting properties:

The mixture does not contain substances included in the list established in accordance with Article 59(1) of REACH for having endocrine-disrupting properties, or one or more substances identified as having endocrine-disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, with a concentration greater than or equal to 0.1%.

Component

The substance(s) is not included in the list established according to Article 59(1) of REACH for having endocrine-disrupting properties, or is not identified as having endocrine-disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

(2-methoxymethylethoxy)propanol (34590-94-8), Amines, N-C12-C14(even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid (139734-65-9), 2,2'-IMINODIETHANOL, DIETHANOLAMINE (111-42-2)

3. Composition / information on ingredients

3.1	Substances	Not applicable (mixture).					
3.2	Mixtures	Relevant ingredients:					
Name component(s)	Weight %	CAS no.	EINECS no.	Index no.	REACH no.	Classification	
(2-methoxymethylethoxy)-propanol Substance with a workplace exposure limit within the Community	5-15	34590-94-8	252-104-2	-	01-2119450011-60	Not classified	
Ethoxylates of fatty alcohols	<3	69011-36-5	-	-	-	Acute Tox. 4 (oral); H302 Eye Dam. 1; H318	
Amines, N-C12-C14 (even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid	<1	139734-65-9	941-419-7	-	01-2120050368-56	Met. Corr. 1; H290 Acute Tox. 4 (oral); H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	
2,2'-iminodiethanol; diethanolamine	<1	111-42-2	203-868-0	603-071-00-1	01-2119488930-28	Acute Tox. 4 (oral); H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Repr. 2; H361fd STOT RE 2; H373 Aquatic Chronic 3; H412	

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
Amines, N-C12-C14 (even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid	139734-65-9	Eye Irrit. 2; H319: $1 \leq C < 3$ Skin Irrit. 2; H315: $1 \leq C \leq 20$ Aquatic Acute; H400: M=10

4. First aid measures

4.1	Description of first aid measures
General	In case of feeling unwell, consult a doctor.

First aid measures in case of inhalation	Move the person to fresh air and ensure they can breathe easily. In case of feeling unwell consult a doctor (show the label if possible).
First aid measures in case of skin contact	If irritation persists, consult a doctor. Wash skin thoroughly with water.
First aid measures in case of eye contact	Rinse immediately with water, keeping eyes wide open. Rinse cautiously with water for several minutes. Remove contact lenses, if possible. Continue rinsing. In case of persistent eye irritation: consult a doctor.
First aid measures in case of ingestion	If unwell consult a poison control centre or doctor.
First aid measures for first aider	First aiders are equipped with appropriate personal protective equipment.
4.2	<u>Most important symptoms and effects, both acute and delayed</u>
Symptoms/effects after inhalation	Although no possible effect on human or animal health is known, this product is considered to pose an inhalation risk.
Symptoms/effects after skin contact	None under normal conditions.
Symptoms/effects after eye contact	Irritation of the eyes.
Symptoms/effects after ingestion by mouth	None under normal conditions.
4.3	<u>Indication of any immediate medical attention and special treatment needed</u>
Symptomatic treatment.	
5. Firefighting measures	
5.1	<u>Extinguishing media</u>
Suitable extinguishing media	Atomised water. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	Strong water jet.
5.2	<u>Special hazards arising from the substance or mixture</u>
Fire hazard	No fire hazard.
Explosion hazard	No immediate explosion hazard.
Hazardous decomposition products in case of fire	Possible formation of toxic vapours. Carbon oxides (CO, CO ₂). Nitrogen oxides.
5.3	<u>Advice for firefighters</u>
Fire precautions	Cool vessels exposed to heat by spraying water on them.
Extinguishing instructions	Fight the fire from a safe distance and a sheltered place. Do not enter fire zone without suitable safety equipment, including respiratory protection.
Protection during firefighting	Do not intervene without suitable safety equipment. Self-contained breathing apparatus. Fully protective clothing.
Other information	Do not allow extinguishing material to enter drains or surface water.
6. Accidental release measures	
6.1	<u>Personal precautions, protective equipment and emergency procedures</u>
General measures	Plug the leak if it can be done safely. Warn authorities, if product enters sewers or open water. Take up leaked/spilled substance to avoid material damage.
Personal precautions	<i>For non-emergency personnel:</i> Wear recommended personal safety equipment. Ventilate contaminated area. Avoid contact with skin and eyes. <i>For emergency responders:</i> Do not intervene without suitable protective equipment. For further information, see section 8: 'Exposure controls/personal protection'. Get rid of superfluous personnel. Plug the leak if it can be done safely.
6.2	<u>Environmental precautions</u>
Environmental precautions	Avoid release into the environment.
6.3	<u>Methods and material for containment and cleaning up</u>
For containment	Absorb spill with sand or soil. Contain spill with dykes or absorbents to prevent spreading and flowing into drains or rivers. If possible, seal the leak without taking any risk.
Methods for cleaning up	Absorb spill with absorbent.

Other information		Take waste or solid residues to an authorised waste disposal company.				
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					
Additional hazards during processing		Not considered to pose a serious risk under normal conditions of use.				
Handling		Ensure proper ventilation of the workplace. Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin and eyes. Wear personal protective equipment.				
Hygiene measures		Wash contaminated clothing before reuse. Do not eat, drink or smoke while using this product. Always wash hands after handling this product.				
7.2	Conditions for safe storage, including any incompatibilities					
Technical measures		Store in a cool and well-ventilated area away from heat.				
Storage		Store in closed packaging. Store in original container. Protect from frost. Protect from sunlight. Store in corrosion-resistant container with corrosion-resistant inner lining. Keep only in the original container.				
Incompatible materials		Acids. Oxidative substances. Metals.				
Storeroom		Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.				
Packaging material		Always store the product in packaging of the same material as the original packaging.				
7.3	Specific end use(s)					
No additional information available.						
8. Exposure controls / personal protection						
8.1	Control parameters					
Occupational exposure limits						
Occupational exposure limit values (Workplace Exposure Limits)						
Cas no	Name of agent	TWA-8h (ppm)	TWA-8h (mg/m³)	TWA- 15 min (ppm)	TWA-15 min (mg/m³)	Source
34590-94-8	(2-methoxymethylethoxy)-propanol		308			REACH
		50	308			COMMISSION DIRECTIVE 2000/39/EC
		50	308			Koninklijk besluit/Arrêté royal 11/05/2021 (BE)
		50	310	50	310	TRGS 900 (DE)
111-42-2	2,2'-iminodiethanol; diethanolamine		1			REACH
		0.46	2			Koninklijk besluit/Arrêté royal 11/05/2021 (BE)
TWA-8h= (time-weighted average) long-term exposure limit; TWA-15 min = short-term exposure limit						

Biological limit values	No information available.
DNELs	No information available.
PNECs	No information available.
8.2	<u>Exposure controls</u>
Appropriate engineering controls	Ensure good ventilation of the workplace.
Personal protection equipment	
Personal protection equipment	Wear recommended personal safety equipment. Symbols for personal safety equipment: 
Eye / face protection	ISO 16321-1. Safety glasses
Skin protection	Wear suitable protective clothing. ISO 13688.
Hand protection	Protective gloves. Chemically resistant gloves (according to European standard NF ISO 374-1 or equivalent). Breakthrough time: see manufacturer's recommendations.
Respiratory protection	In case of inadequate ventilation, use suitable respiratory equipment. EN 14387. EN 136
Thermal hazards	No information available.
Environmental exposure controls	Prevent discharge into the environment.
9. Physical and chemical properties	
9.1	<u>Information on basic physical and chemical properties</u>
Physical state	Liquid.
Colour	Green.
Appearance	Liquid.
Odour	Characteristic
Odour threshold	Not available.
Melting point/freezing point	Melting point: not applicable. Freezing point: not available.
Boiling point/range (1013 hPa)	100 °C.
Flammability	Not flammable.
Explosive properties	Not explosive according to EC criteria.
Oxidising properties	Non-oxidative according to EC criteria.
Lower and upper explosion limit	Not available.
Flash point	Not available.
Auto-ignition temperature	Not self-igniting.
Decomposition temperature	Not available.
pH	9.5
pH concentration of the solution	100 %
Kinematic viscosity	Not available.
Solubility	Water: 100 %.
Partition coefficient n-octanol/water	Not available.
Vapour pressure	Not available.
Vapour pressure at 50°C	Not available.
Density	1.02 g/cm ³
Relative density	Not available.
Relative vapour density	Not available.
Particle characteristics	Not applicable.

9.2	<u>Other information</u>																																																													
Other information		No additional information available.																																																												
10. Stability and reactivity																																																														
10.1	<u>Reactivity</u>																																																													
Reactivity		The product is non-reactive under normal conditions of use, storage and transport.																																																												
10.2	<u>Chemical stability</u>																																																													
Stability		The product is stable under normal processing and storage conditions.																																																												
10.3	<u>Possibility of hazardous reactions</u>																																																													
Hazardous reactions		No hazardous reactions known under normal conditions of use.																																																												
10.4	<u>Conditions to avoid</u>																																																													
Conditions to avoid		None, under recommended storage and handling conditions.																																																												
10.5	<u>Incompatible materials</u>																																																													
Materials to avoid		Acids, oxidising agents, metals.																																																												
10.6	<u>Hazardous decomposition products</u>																																																													
Hazardous decomposition products		Under normal storage and use conditions, no hazardous decomposition products will be generated.																																																												
11. Toxicological information																																																														
11.1	<u>Information on hazard classes as defined in Regulation (EC) no. 1272/2008</u>																																																													
Acute toxicity: inhalation		Not classified (Based on available data, the classification criteria are not met).																																																												
Acute toxicity: skin contact		Not classified (Based on available data, the classification criteria are not met).																																																												
Acute toxicity: ingestion		Not classified (Based on available data, the classification criteria are not met).																																																												
<table><tr><th>Cas no</th><th>Name of substance</th><th>Route of exposure</th><th>Dosage</th><th>Species</th><th>Method</th></tr><tr><td>34590-94-8</td><td>(2-methoxymethylethoxy)-propanol</td><td>Oral</td><td>LD50: 5,000 mg/kg</td><td>Rat</td><td>-</td></tr><tr><td></td><td></td><td>Dermal</td><td>LD50: 9,510 mg/kg</td><td>Rabbit</td><td>-</td></tr><tr><td></td><td></td><td>Inhalation</td><td>LC50: 3,404,47 mg/l</td><td>Rat</td><td>-</td></tr><tr><td>111-42-2</td><td>2,2'-iminodiethanol; diethanolamine</td><td>Oral</td><td>LD50: ≈ 1,000 mg/kg BW</td><td>Rat</td><td>OECD 401 method</td></tr><tr><td></td><td></td><td>Oral</td><td>LD50: 710 mg/kg BW</td><td>-</td><td>-</td></tr><tr><td></td><td></td><td>Dermal</td><td>LD50: ≈ 12,970 mg/kg</td><td>Rabbit</td><td>-</td></tr><tr><td></td><td></td><td>Dermal</td><td>LD50: 12,200 mg/kg BW</td><td>-</td><td>-</td></tr><tr><td>69011-36-5</td><td>Ethoxylates of fatty alcohols</td><td>Oral</td><td>LD50: > 200 mg/kg BW</td><td>-</td><td>-</td></tr><tr><td></td><td></td><td>Dermal</td><td>LD50: > 2,000 mg/kg BW</td><td>-</td><td>-</td></tr></table>			Cas no	Name of substance	Route of exposure	Dosage	Species	Method	34590-94-8	(2-methoxymethylethoxy)-propanol	Oral	LD50: 5,000 mg/kg	Rat	-			Dermal	LD50: 9,510 mg/kg	Rabbit	-			Inhalation	LC50: 3,404,47 mg/l	Rat	-	111-42-2	2,2'-iminodiethanol; diethanolamine	Oral	LD50: ≈ 1,000 mg/kg BW	Rat	OECD 401 method			Oral	LD50: 710 mg/kg BW	-	-			Dermal	LD50: ≈ 12,970 mg/kg	Rabbit	-			Dermal	LD50: 12,200 mg/kg BW	-	-	69011-36-5	Ethoxylates of fatty alcohols	Oral	LD50: > 200 mg/kg BW	-	-			Dermal	LD50: > 2,000 mg/kg BW	-	-
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		Dermal	LD50: > 2,000 mg/kg BW	-	-																																																									
Skin corrosion/irritation		Not classified (Based on available data, the classification criteria are not met). pH: 9.5.																																																												
Serious eye damage/irritation		Causes serious eye irritation. pH: 9.5.																																																												
Respiratory or skin sensitisation		Not classified (Based on available data, the classification criteria are not met).																																																												
Germ cell mutagenicity		Not classified (Based on available data, the classification criteria are not met).																																																												
Carcinogenicity		Not classified (Based on available data, the classification criteria are not met).																																																												

Cas no	Name of substance	Route of exposure	Dosage	Species
139734-65-9	Amines, N-C12-C14 (even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid	Oral, chronic	NOAEL: 7 mg/kg BW	Animal/male, 2 years
		Oral, chronic	NOAEL: 13 mg/kg BW	Animal/female, 2 years

Reproductive toxicity

Not classified (Based on available data, the classification criteria are not met).

Cas no	Name of substance	Dosage	Species
139734-65-9	Amines, N-C12-C14 (even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid	NOAEL: 6	Animal/male, F0/P
		NOAEL: 20	Animal/female, F1

Specific target organ toxicity – single exposure

Not classified (Based on available data, the classification criteria are not met).

Specific target organ toxicity – repeated exposure

Not classified (Based on available data, the classification criteria are not met).

Cas no	Name of substance	STOT on repeated exposure	May cause damage to organs through prolonged or repeated exposure
111-42-2	2,2'-iminodiethanol; diethanolamine		

Aspiration hazard

Not classified (Based on available data, the classification criteria are not met).

11.2 Information on other hazards

Other hazards

No additional information available.

12. Ecological information

12.1 Toxicity

Ecology - general:

Harmful to aquatic life with long lasting effects.

Short-term hazard to the aquatic environment (acute):

Not classified (based on available data, the classification criteria are not met).

Hazardous to the aquatic environment, (chronic) in the long term:

Harmful to aquatic life with long lasting effects.

Cas no	Name of substance	Aquatic toxicity	Dose	h/d	Species
34590-94-8	(2-methoxymethylethoxy)-propanol	Fish	LC50: 10,000mg/l	-	-
		Crustaceans	EC50: 1,919 mg/l	-	-
		Algae	EC50: 6,999 mg/l	72 h	-
		Crustaceans (chronic)	NOEC: 0.5 mg/l	-	-
111-42-2	2,2'-iminodiethanol; diethanolamine	Fish	LC50: 1,460 mg/l	-	-
		Crustaceans	EC50: ≈ 55 mg/l	-	-
		Other aquatic organisms	EC50: 55 mg/l	-	Water flea
		Other aquatic organisms	EC50: 75 mg/l	-	-
		Algae	EC50: ≈ 2.2 mg/l	96 h	-

		Crustaceans (chronic)	NOEC: ≈ 0.78 mg/l	-	-
139734-65-9	Amines, N-C12-C14 (even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid	Fish	LC50: 207,400 ng/l	-	-
		Other aquatic organisms	LC50: 0 mg/l	-	-
		Crustaceans	EC50: 0.0333 mg/l	-	-
		Algae	ErC50: 0.0237 mg/l	-	-
		(Chronic)	NOEC: ≥ 1 mg/l	-	-
		Fish (chronic)	NOEC: 0.0523 mg/l	-	-
		Crustaceans (chronic)	NOEC: 2,300 ng/l	-	-

12.2 Persistence and degradability

Cas no	Name of substance	Persistence and degradability	Biodegradation
-	Greenclear	Readily biodegradable, according to applicable OESD test.	> 99 %; 28 days.
34590-94-8	(2-methoxymethylethoxy)-propanol	Readily biodegradable.	75%.
111-42-2	2,2'-iminodiethanol; diethanolamine	70% decrease in COD (28j) (OECD 301 A) Readily biodegradable.	93 % (OECD 301F method).
69011-36-5	Ethoxylates of fatty alcohols	Readily biodegradable.	-
139734-65-9	Amines, N-C12-C14 (even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid	Readily biodegradable, according to OESD test applicable TG301 A.	94%.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water		
Cas no	Name of substance	Log Pow
111-42-2	2,2'-iminodiethanol; diethanolamine	-1,4

12.4 Mobility in soil

Organic-carbon-normalised adsorption coefficient		
Cas no	Name of substance	Log Koc
34590-94-8	(2-methoxymethylethoxy)-propanol	0,28

12.5 Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH Regulation, in accordance with Annex XIII	(2-methoxymethylethoxy)propanol (34590-94-8), 2,2' IMINODIETHANOL, DIETHANOLAMINE (111-42-2), Amines, N-C12-C14(even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid (139734-65-9)
Substance(s) do not meet the vPvB criteria of REACH regulation, in accordance with Annex XIII	(2-methoxymethylethoxy)propanol (34590-94-8), 2,2'-IMINODIETHANOL, DIETHANOLAMINE (111-42-2), Amines, N-C12-C14(even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid (139734-65-9)

12.6	Endocrine disrupting properties							
Endocrine disrupting potential		No additional information available.						
12.7	Other adverse effects							
Other adverse effects		No additional information available.						
13. Disposal considerations								
13.1	Waste treatment methods							
Regional waste legislation		Dispose of in accordance with the statutory provisions.						
Waste treatment methods		Dispose of contents/packaging in accordance with the sorting instructions of an authorised collection company.						
Recommendations for wastewater disposal		Waste disposal in accordance with legal provisions.						
Product disposal		Dispose of contents/packaging to hazardous or special waste collection point in accordance with local, regional, national and/or international regulations. Dispose of in accordance with legal provisions.						
European waste list		No information available.						
Additional information		Do not reuse empty packaging.						
HP code		HP4 - 'Irritant - skin irritation and eye injury' wastes that may cause skin irritation or eye injury on application. HP14 - 'Ecotoxic': waste whose use immediately or over time causes or may cause danger to one or more sectors of the environment.						
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: The product is not subject to ADR/RID/ADN regulations (not dangerous goods).						
Marine transport (IMDG)		14.1 UN-number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): 14.4 Packing group: The product is not subject to IMDG regulations (no dangerous goods).						
Air transport (ICAO-IATA)		14.1 UN-number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): 14.4 Packing group: The product is not subject to ICAO-IATA regulations (no dangerous goods).						
14.5	Environmental hazards							
Environmental hazard		Not regulated.						
Marine pollutant		Not regulated.						
14.6	Special precautions for user							
Not regulated.								
14.7	Maritime transport in bulk according to IMO instruments							
Not applicable.								
15. Regulatory information								
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture							
Relevant EU rule(s)		REACH Annex XVII (restricted substances): REACH list of restrictions (Annex XVII): <table><tr><th>Reference code</th><th>Applicable to</th></tr><tr><td>3 (b)</td><td>GreenClear; 2,2'-IMINODIETHANOL, DIETHANOLAMINE; ETHOXYLATES OF FATTYALCOHOL; Amines, N-C12-C14(even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid</td></tr><tr><td>3 (c)</td><td>GreenClear; 2,2'-IMINODIETHANOL, DIETHANOLAMINE ; Amines, N-C12-C14(even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid</td></tr></table>	Reference code	Applicable to	3 (b)	GreenClear; 2,2'-IMINODIETHANOL, DIETHANOLAMINE; ETHOXYLATES OF FATTYALCOHOL; Amines, N-C12-C14(even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid	3 (c)	GreenClear; 2,2'-IMINODIETHANOL, DIETHANOLAMINE ; Amines, N-C12-C14(even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid
Reference code	Applicable to							
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	<u>REACH Annex XIV (list of substances subject to authorisation):</u> Does not contain substance(s) included in REACH Annex XIV (list of substances subject to authorisation) <u>REACH candidate list (SVHC):</u> Does not contain substance(s) included in the REACH candidate list. <u>PIC regulation (prior informed consent):</u> Contains no substances included in the PIC list (Regulation EU 649/2012 on export and import of dangerous chemicals). <u>POP Regulation (persistent organic pollutants):</u> Contains no substances included in the POP list (Regulation EU 2019/1021 on organic pollutants). <u>Ozone Regulation (1005/2009):</u> Contains no substances included in the list of ozone depleting substances (EU Regulation 1005/2009 on substances that deplete the ozone layer). <u>Council Regulation (EC) for the control of dual-use items:</u> Does not contain any substance covered by the Council Regulation (EC) for the control of dual-use items. <u>Regulation on detergents (648/2004):</u> <table border="1" data-bbox="694 884 1500 1070"> <thead> <tr> <th colspan="2">Labelling of levels</th></tr> <tr> <th>Component</th><th>%</th></tr> </thead> <tbody> <tr> <td>Cationic surfactants</td><td>5-15%</td></tr> <tr> <td>Anionic surfactants, non-ionic surfactants, amphoteric surfactants</td><td><5%</td></tr> <tr> <td>Enzymes</td><td></td></tr> </tbody> </table> <u>Regulation on explosives precursors (2019/1148):</u> Does not contain any substances included in the list of explosives precursors (Regulation EU 2019/1148 on the marketing and use of explosives precursors). <u>Drug precursors regulation (273/2004):</u> Does not contain any substances included in the list of drug precursors (Regulation EC 273/2004 on the production and placing on the market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances).	Labelling of levels		Component	%	Cationic surfactants	5-15%	Anionic surfactants, non-ionic surfactants, amphoteric surfactants	<5%	Enzymes	
Labelling of levels											
Component	%										
Cationic surfactants	5-15%										
Anionic surfactants, non-ionic surfactants, amphoteric surfactants	<5%										
Enzymes											
National regulations	No information available.										
15.2	Chemical safety assessment										
No chemical safety assessment has been carried out.											
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://echa.europa.eu/information-on-chemicals/registered-substances										
(EU)H-statement(s)	H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.										

	H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
Classification procedure	No information available.
List of abbreviations and acronyms	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. Acute Tox.: Acute toxicity. 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. BW: Body weight. 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. ErC50: The concentration resulting in a 50% reduction in growth rate. 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 (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 Koc: Organic-carbon-normalised adsorption coefficient. Log POW: n-Octanol/water. Met. Corr.: Substance or mixture corrosive to metals. M-factor: Multiplication factor. NOAEL: The highest concentration or amount of a substance at which no observable adverse effects occur in an exposed population (No Observed Adverse Effect Level). NOEC: No Observed Effect Concentration. 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.
Repr.: Reproductive toxicity.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
SCL: Specific concentration limit.
Skin Corr.: Skin corrosion.
Skin Irrit.: Skin irritation.
STOT RE: Specific target organ toxicity – repeated 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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