

		0.1 Product Vulnos Blue Spray				
			0.2 Status	Active		
WATERIAL SAFETT DATA SHEET		0.3 Version	4			
		0.4 Version date	23-03-2023			
1. Identification of the produc	ct and of the company					
1.1 <u>Product identification</u>						
Product name	Vulnos Blue Spray					
Trade name	Vulnos Blue Spray / Vul	lnos Bla	uw Spray			
Article code	VULN0200					
Chemical description	Mixture					
UFI	-					
REACH registration number	-					
1.2 <u>Relevant identified uses of the</u>	e substance or mixture	and us	es advised against			
Identified use(s)	Skin care product.	Skin care product.				
Use(s) advised against	Not identified.	Not identified.				
1.3 Details of the supplier of the s	afety data sheet					
Company identification	Name	Holla	Holland Animal Care B.V.			
Contact	Address	De L	eemkoele 2			
	Zip code	7468	DM			
	Town	Ente	r			
	Country	The l	Netherlands			
	Telephone	+31-	31-(0)548-545520			
	E-mail	<u>info(</u>	<u>@hollandanimalcare.nl</u>			
	Website	www.hollandanimalcare.nl				
1.4 Emergency telephone number	r					
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:

Aerosol 1; Aerosols – category 1; H222, H229

Eye Irrit. 2; Serious eye damage / irritation – category 2; H319

STOT SE 3; Specific target organ toxicity, single exposure – category 3; H336

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

2.2 Label elements	2 Label elements							
Labelling according to Regulation (Labelling according to Regulation (EC) no. 1272/2008:							
Hazardous component(s)	propan-2-ol; isopropyl alcohol; isopropanol.							
Hazard pictogram(s)								
Signal word	Danger							
Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.							
Precautionary measures - General	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children.							
- Prevention	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.No smoking.P211 Do not spray on an open flame or other ignition source.							
- Storage	P251 Do not pierce or burn, even after use. P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.							
Special labelling of specific mixture	Active substances: 98g/100g 2-propanol, 0.1g/100g alkyl (C12-C14) dimethylbenzylammonium chloride (ADBAC (C12-C14)). Read enclosed instruction sheet before use.							
2.3 Other hazards								
Other hazards	Use only in accordance with the intended purpose. Possible formation of explosive mixtures without adequate ventilation. Use only empty containers for recycling purposes.							
Results of PBT and vPvB assessmen	t According to the results of its assessment, this substance is not a PBT or a vPvB.							
Endocrine disrupting properties	Contains no components with endocrine disrupting properties in a concentration of $\ge 0.1\%$.							



3. Composition/information on ingredients									
3.1	<u>Substances</u>		Not relevant	Not relevant (mixture).					
3.2	<u>Mixtures</u>		Hazardous i	ngredients.					
Name	component(s)	weight %	CAS no.	EINECS no.	Index no.	Reach no.	Classification		
Propai alcohc	ı-2-ol; isopropyl ıl; isopropanol	55 ≤ 60	57-63-0	200-661-7	603-117-00-0	01- 2119457558- 25	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336		
Butan	5	25 ≤ 30	106-97-8	203-448-7	601-004-00-0	01- 2119474691- 32	Flam. Gas 1 L; H220/H280		
Propai	16	12.5 ≤ 15	74-98-6	200-827-9	601-003-00-5	01- 2119486944- 21	Flam. Gas 1 L; H220/H280		
2,2',2"	-Nitrilotriethanol	0.1 ≤ 0.5	102-71-6	203-049-8		01- 2119486482- 31			
Basic E	3lue 7 (CI 42595)	< 0.1	2390-60-5	219-232-0			Acute Tox. 3; H301 Eye Dam. 1; H318 Aquatic Chronic 1; H410		
Alkyl benzyl (ADBA	(C12-C14) dimethyl ammonium chloride C (C12-C14))	< 0.1	35409-22-9	287-089-1		01- 2120754638- 42	Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410		
The fu	ll text of the (EU)H-state	ements can be fo	ound in section 1	6.	1	1			
SCL,	M-factor, ATE								
Name	componen(s)		CAS no.		:	SCL, M-factor, ATE			
Propai	ו-2-ol; isopropyl alcohol;	; isopropanol	67-63-0	57-63-0			Dermal: LD50 = 13900 mg/kg Oral: LD50 = 5840 mg.kg		
2,2',2'	'-Nitrilotriethanol		102-71-6	102-71-6			Dermal: LD50 = >2000 mg/kg Oral: LD50 = 6400 mg/kg		
Basic E	3lue 7 (CI 42595)		2390-60-5	2390-60-5			Oral: ATE = 100 mg/kg		
Alkyl chlorid	(C12-C14) dimethyl ber de (ADBAC (C12-C14))	nzyl ammonium	85409-22-9	5409-22-9			Dermal: LD50 = 3412.5 mg/kg Oral: LD50 = 795 mg/kg		
4.	First aid measu	res							
4.1	Description of firs	t aid measur	<u>es</u>						
Gene	ral		In all cases is needed,	In all cases of doubt or if symptoms are present, seek medical advice. If medical advice is needed, have product container or label at hand.					
First	aid measures in cas	e of inhalatio	on Provide fr	Provide fresh air.					
First conta	aid measures in act	case of sl	kin After cont clothing a	act with skin, wash nd wash before reu	immediately w se. If skin irrita	vith soap and v ation occurs, s	vater. Remove contaminated eek medical attention.		
First	aid measures in case	e of eye conta	act In case of eyelids op	In case of eye contact, rinse the eyes with water for a sufficiently long time with the eyelids open, then consult an ophthalmologist immediately.					



First	aid measures in case of ingestion	In case of vomiting, pay attention to the danger of suffocation. Rinse mouth immediately and drink 1 glass of water. Never administer anything by mouth to an unconscious person or if convulsions occur.				
4.2	Most important symptoms and effects, both acute and delayed					
Heada Sympt	aches, dizziness, lightheadedness. toms may also appear after many hou	rs, therefore medical monitoring at least until 48 hours after the accident.				
4.3	Indication of any immediate med	lical attention and special treatment needed				
Symp	tomatic treatment.					
5.	Firefighting measures					
5.1	Extinguishing media					
Suita	ble extinguishing media	Water mist, carbon dioxide (CO ₂), foam, extinguishing powder.				
Unsu	itable extinguishing media	Full water jet.				
5.2	Special hazards arising from the s	substance or mixture				
Speci	al exposure hazards	Extremely flammable aerosol. Pressurised container: May burst if heated. Vapours can form explosive mixtures with air.				
5.3	Advice for firefighters					
Speci	al protective equipment	n case of fire: use a self-contained breathing apparatus.				
Speci	al procedures	Use water mist to protect persons and cool containers in the danger area. Precipitate gases / vapours / mist with water mist. Collect contaminated fire extinguishing wate separately. Do not allow product to enter drains or watercourses.				
6.	Accidental release measures					
6.1	Personal precautions, protective	equipment and emergency procedures				
Personal precautions		General advice: Remove all ignition sources. Ensure adequate ventilation. Do not inhale gas/fumes/vapour/aerosol. Avoid contact with skin, eyes and clothing. Use personal protective equipment. For non-emergency personnel: Move persons to safety. Ventilate the affected area. Do not inhale gas/vapour/aerosol. For emergency responders: Use respiratory protection when exposed to vapours, dusts and aerosols.				
6.2	Environmental precautions					
Envir	onmental precautions	Do not allow product to enter the environment uncontrolled. Danger of explosion.				
6.3	Methods and material for contain	nment and cleaning up				
Meth	ods for cleaning up	Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal pinder). Treat absorbed material in accordance with the section Disposal (section 13).				



6.4	Reference to other sections							
Safe handling			See section	See section 7.				
Perso	onal protect	on	See section	8.				
Remo	oval of the v	aste product	See section	13.				
7.	Handlin	g and storage						
7.1	Precaution	s for safe handli	ng					
Handling			Instructions Do not pierce exhaust ven Information Immediately protection p shower if ne Further infor Heating lead	Instructions for safe handling: Do not pierce or burn, even after use. In case of open handling, use equipment with local exhaust ventilation. Do not inhale gas/fume/vapour/aerosol. Information on general hygiene measures at the workplace: Immediately remove contaminated, soaked clothing. Prepare and observe a skin protection plan! Wash hands and face thoroughly before breaks and at the end of work, shower if necessary. Do not eat, drink, smoke or sniff at the workplace. <i>Further information on handling:</i> Heating leads to pressure increase and danger of bursting.				
7.2	<u>Conditions</u>	for safe storage	, including any ir	ncompatibilitie	es			
Storage			Do not stor substances. Keep away f Storage clas	Do not store together with: Oxidising agents, pyrophoric or self-heating hazardous substances. Keep away from food, drinks and animal feed. Storage class according to TRGS 510: 2B (aerosol dispensers and lighters).				
Requ conta	irements fo ainers	r storage rooms a	and Store locked ventilation a cool, well-ve other ignitio	Store locked up. Store in a place accessible only to authorised persons. Provide adequate ventilation and point source exhaust ventilation at critical points. Store container in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.				
Prote	ection agains	st fire and explos	ion Do not spra temperature Take measu air.	Do not spray on flames or glowing objects. Protect from sunlight. Do not expose to temperatures above 50 °C/122 °F. Keep away from sources of ignition - Do not smoke. Take measures against electrostatic charges. Vapours may form explosive mixtures with air.				
Packa	aging mater	al	Not availabl	Not available.				
Unsu	itable packa	ging material	Not availabl	Not available.				
7.3	Specific en	d use(s)						
For id	entified use(s), see section 1.2.						
8.	Exposur	e controls/perso	nal protection					
8.1	<u>Control pa</u>	rameters						
Occu Occ Cas	pational exp upational exp no -71-6	oosure limits osure limit values Name of agent 2,2',2''-Nitrilo-	(Workplace Expos TWA-8h (ppm)	sure Limits) TWA-8h (mg/m ³) 5	TWA- 15 min (ppm)	TWA-15 min (mg/m ³)	Source REACH	
102-	-71-6	triethanol 2,2',2''-Nitrilo-		1 E			TRGS 900 (DE)	
106	-97-8	triethanol Butane	1000	2400	4000	9600	TRGS 900 (DE)	



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67-63-0	57-63-0 Propan-2-ol			500			REACH
67-63-0	Propar	n-2-ol	200	500			TRGS 900 (DE)
74-98-6 Propar		ne	1000	1800			TRGS 900 (DE)
	TWA-8h	= (time-weig	hted average) long-	term exposure limit; T	WA-15 min = short-t	erm exposure limit;	E = inhalable fraction
Biological lim	it values						
Cas no		Name of	agent	Parameter	Value	So	ource
67-63-0		Propan-2	-ol	Acetone	25 mg/l	TI	RGS 903 (DE)
DNELs							
Relevant DN	ELs of compo	onents of t	he mixture				
Name of	Cas no	End-	Threshold level	Protection goal	, Used in	Exposu	re time
agent		point		route of exposu	ire		
Propan-2-	67-63-0	DNEL	1000 mg/m ³	Human, inhalate	ory Worker	Acute -	- systemic effects
ol							
		DNEL	178 mg/m ³	Human, inhalate	ory Consumer	Acute -	- systemic effects
		DNEL	51 mg/kg BW/d	Human, oral	Consumer	Acute -	- systemic effects
		DNEL	888 mg/kg /d	Human, dermal	Worker	Chroni	c - systemic effects
		DNEL	500 mg/m ³	Human, inhalate	ory Worker	Chroni	c - systemic effects
		DNEL	319 mg/kg	Human, dermal	Consumer	Chroni	c - systemic effects
			BW/d				
		DNEL	89 mg/m ³	Human, inhalate	ory Consumer	Chroni	c - systemic effects
		DNEL	26 mg/kg BW/d	Human, oral	Consumer	Chroni	c - systemic effects
2,2',2"-	102-71-6	DNEL	1 mg/m ³	Human, inhalate	ory Worker	Chroni	c – local effects
Nitrilotriet							
hanol							
		DNEL	0.4 mg/m ³	Human, inhalate	ory Consumer	Chroni	c – local effects
		DNEL	7.5 mg/kg BW/c	Human, dermal	Worker	Chroni	c - systemic effects
		DNEL	5 mg/m ³	Human, inhalate	ory Worker	Chroni	c - systemic effects
		DNEL	2.66 mg/kg	Human, dermal	Consumer	Chroni	c - systemic effects
			KG/d				
		DNEL	1.25 mg/m ³	Human, inhalate	ory Consumer	Chroni	c - systemic effects
		DNEL	3.3 mg/kg BW/c	Human, oral	Consumer	Chroni	c - systemic effects
Alkyl (C12-	85409-22-	DNEL	1.64 mg/m ³	Human, inhalate	ory Consumer	Chroni	c - systemic effects
C14)	9						
dimethyl							
benzyl							
ammonium							
chloride							
(ADBAC							
(C12-C14))			2.4. ///				
			3.4 mg/kg BW/c	Human, dermal	Consumer	Chroni	c - systemic effects
			3.4 mg/kg BW/c	Human, oral	Consumer	Chroni	c - systemic effects
			3.96 mg/m ³	Human, inhalate	ory Worker	Chroni	c - systemic effects
			5.7 mg/kg BW/c	1 Human, dermal	Worker	Chroni	c - systemic effects



Relevant PNECS	or components o	n the mi	xture	Thursd 111	0	F	F
Name of substance	Cas no	End	-point	Threshold level	Organism	compartmental	Exposure time
Propan-2-ol	67-63-0	PNE	С	140.9 mg/l		Fresh water	
		PNE	С	140.9 mg/l		Fresh water	Intermittent release
		PNE	С	140.9 mg/l		Marine water	
		PNE	С	552 mg/kg		Freshwater sediments	
		PNE	С	552 mg/kg		Marine sediments	
		PNE	С	160 mg/kg		Secondary poisoning	
		PNE	С	2251 mg/l	Micro organisms	Sewage treatment	
		PNE	С	28 mg/kg		Soil	
2,2',2"- Nitrilotriethano	102-71-6	PNE	С	0.32 mg/l		Fresh water	
		PNE	С	5.12 mg/l		Fresh water	Intermittent release
		PNE	С	0.032 mg/l		Marine water	
		PNE	С	1.7 mg/kg		Freshwater sediments	
		PNE	С	0.17 mg/kg		Marine sediments	
		PNE	С	10 mg/l	Micro organisms	Sewage treatment	
		PNE	С	0.151 mg/kg		Soil	
Alkyl (C12-C14) dimethyl benzyl ammonium chloride ADBAC (C12- C14))	85409-22-9	PNE	с	0.001 mg/l		Fresh water	
		PNE	С	0 mg/l		Fresh water	Intermittent release
		PNE	С	0.001 mg/l		Marine water	
		PNE	С	12.27 mg/kg		Freshwater sediments	
		PNE	С	13.09 mg/kg		Marine sediments	
		PNE	С	0.4 mg/l	Micro organisms	Sewage treatment	
		PNE	С	7 mg/kg		Soil	
2 Exposure o	controls						
ngineering mea	sures		Do not inh	ale gas/smoke/vapor	r/aerosol. Use or	nly outdoors or in wel	I-ventilated area
ersonal protect	ion equipment						
/e / face protec	tion		Wear eye, 166).	/face protection. Suit	able eye protec	tion: close-fitting safe	ety goggles (DIN
in protection			Not availa	ble.			



Decomposition temperature

Partition coefficient n-octanol/water

Kinematic viscosity

Vapour pressure

Density or relative density

Relative vapour density

Particle characteristics

рΗ

Solubility

Hand protection		When handling chemicals, only wear chemical protective gloves with CE marking including a four-digit test number. Protective gloves should be selected specifically for the workplace depending on the concentration and quantity of hazardous substances. Suitable material: butyl rubber (EN ISO 374). Thickness of the glove material: 0.5 mm. Penetration time (maximum wear time): >= 480 min. It is recommended to verify the chemical resistance of the protective gloves mentioned above with the glove manufacturer in case of special use.				
Body p	protection	Wear antistatic shoes and work clothes.				
Respir	atory protection	Wear respiratory protection if ventilation is inadequate. Suitable respiratory equipment: combination filter device A-P2.				
Therm	al hazards	Not available.				
Enviro	nmental exposure controls	Not available.				
9.	Physical and chemical prope	rties				
9.1 <u> </u>	nformation on basic physical a	nd chemical properties				
9.1	nformation on basic physical a	nd chemical properties Liquid.				
9.1 <u> </u> Physica Colour	nformation on basic physical a	nd chemical properties Liquid. Blue.				
9.1 <u> </u> Physica Colour Odour	nformation on basic physical a	nd chemical properties Liquid. Blue. Alcohol.				
9.1 <u>I</u> Physica Colour Odour Melting	nformation on basic physical and a state	nd chemical properties Liquid. Blue. Alcohol. Not available.				
9.1 <u>I</u> Physica Colour Odour Melting Boiling	nformation on basic physical a al state g / freezing point point / range (1013 hPa)	nd chemical properties Liquid. Blue. Alcohol. Not available. < -20 °C.				
9.1 <u>I</u> Physica Colour Odour Melting Boiling	nformation on basic physical a al state g / freezing point point / range (1013 hPa) ability	nd chemical properties Liquid. Blue. Alcohol. Not available. < -20 °C.				
9.1 <u> </u> Physica Colour Odour Melting Boiling Flamma Explosi	nformation on basic physical a al state g / freezing point point / range (1013 hPa) ability on limits	nd chemical properties Liquid. Blue. Alcohol. Not available. < -20 °C.				
9.1 <u> </u> Physica Colour Odour Melting Boiling Flamm Explosi	nformation on basic physical a al state g / freezing point point / range (1013 hPa) ability on limits	Ind chemical properties Liquid. Blue. Alcohol. Not available. < -20 °C.				

Not available.

Partially miscible in water at 20 °C.

0.675 g/cm³ calculated at 20 °C.



9.2	Other information			
Information on physical hazard classes		Explosion hazards: Heating may cause explosion. Oxidising properties: The product is not: oxidising.		
Other	information	No further relevant information available.		
10.	Stability and reactivity			
10.1	Reactivity			
Reactivity		Extremely flammable aerosol. Pressurised container: May burst if heated. No further information available.		
10.2	Chemical stability			
Stabi	lity	The product is stable when stored at normal ambient temperatures.		
10.3	Possibility of hazardous reactio	ns		
Haza	rdous reactions	Heating leads to pressure increase and bursting hazard.		
10.4	Conditions to avoid			
Cond	itions to avoid	Keep away from heat sources (e.g. hot surfaces), sparks and open flames. Vapours may form explosive mixtures with air.		
10.5	Incompatible materials			
Mate	rials to avoid	No further relevant information available.		
10.6 Hazardous decomposition products				
Haza	rdous decomposition products	In the event of fire, the following may be formed: Carbon dioxide (CO2), carbon monoxide, soot, pyrolysis products, toxic.		



11. Toxicological information

11.1 Informatio	1.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008						
Acute toxicity			Based on the available data, the classification criteria are not met.				
ATEmix calculate ATE (oral) 100000	ed ,0 mg/kg						
Cas no	Name of substance	Rou exp	ute of oosure	Dosis	Species	Source	Methode
67-63-0	Propan-2-ol	Ora		LD50 = 5,840 mg/kg	Rat		OECD 401
		Der	mal	LD50 = 13,900 mg/kg	Rabbit		OECD 402
102-71-6	2,2',2"- Nitrilotriethano I	Ora	I	LD50 = 6,400 mg/kg	Rat	Study report (1966)	OECD Guideline 401
		Der	mal	LD50 = >2,000 mg/kg	Rabbit	Other company data (1989)	OECD Guideline 402
2390-60-5	Basic Blue 7 (Cl 42595)	Ora	ıl	ATE = 100 mg/kg			
85409-22-9	Alkyl (C12-C14) dimethyl benzyl ammonium chloride (ADBAC (C12- C14))	Oral		LD50 = 795 mg/kg	Rat	Study report (1986)	OECD Guideline 401
		Der	mal	LD50 = 3412.5 mg/kg	Rabbit	Study report (1977)	EPA OPPTS 870.1200
Skin corrosion /	irritation		Based on the available data, the classification criteria are not met.				
Serious eye dam	age / irritation		Causes serious eye irritation.				
Respiratory or sl	kin sensitisation		Based on the available data, the classification criteria are not met.				
Mutagenicity			Based on the available data, the classification criteria are not met.				
Carcinogenicity			Based on the available data, the classification criteria are not met.				
Reproductive to	xicity		Based on the available data, the classification criteria are not met.				
Specific target organ toxicity – single exposure			May cause drowsiness and dizziness (propan-2-ol; isopropyl alcohol; isopropanol).				
Specific target organ toxicity – repeated exposure			Based on the available data, the classification criteria are not met.				
Aspiration hazar	d		Based on the	e available data, the	e classification c	riteria are not met.	
11.2 Information	on on other hazar	<u>ds</u>					
Other hazards			The mixture	is classified as dang	gerous according	g to Regulation (EC) N	o 1272/2008 [CLP].



12. Ecological information

12.1 Toxicity

Ecotoxicity

Based on the available data, the classification criteria are not met.

Cas no	Name of substance	Aquatic toxicity	Dosis	h/d	Species
67-63-0	Propan-2-ol	Acute fish toxicity	LC50 = 10,000 mg/l	96 h	Pimephales promelas
		Acute algae toxicity	ErC50 = >100 mg/l	72 h	Scenedesmus subspicatus
		Acute crustaceans toxicity	EL50 = 9,714 mg/l	48 h	Daphnia magna
		Fish toxicity	NOEC = >1,000 mg/l	28 d	Danio rerio
		Crustaceans toxicity	NOEC = >1,000	21 d	Daphnia magna
		Acute bacteria toxicity	(EC50 = >100 mg/l)		
106-97-8	Butane	Acute fish toxicity	LC50 = 49.9 mg/l	96 h	Fish, no other information
		Acute algae toxicity	ErC50 = 19.37 mg/l	96 h	Algae
		Acute crustaceans toxicity	EC50 69.43 mg/l	48 h	Daphnia sp.
74-98-6 Propane		Acute fish toxicity	LC50 = 49.9 mg/l	96 h	Fish, no other information
		Acute algae toxicity	ErC50 = 19,37 mg/l	96 h	Algae
		Acute crustaceans toxicity	EC50 69.43 mg/l	48 h	Daphnia sp.
102-71-6	2,2',2"- Nitrilotriethanol	Acute fish toxicity	LC50 = 11,800 mg/l	96 h	Pimephales promelas
		Acute algae toxicity	ErC50 = 512 mg/l	72 h	Desmodesmus subspicatus
		Acute crustaceans toxicity	EC50 = 609.88 mg/l	48 h	Ceriodaphnia dubia
		Crustaceans toxicity	NOEC = 16 mg/l	21 d	Daphnia magna
85409-22-9	Alkyl (C12-C14) dimethyl benzyl ammonium chloride (ADBAC (C12-C14))	Acute fish toxicity	LC50 = 0.93 mg/l	96 h	Danio rerio (Zebrabärbling)
		Acute algae toxicity	ErC50 = 0.01 mg/l	96 h	Pseudokirchneriella subcapitata
		Acute crustaceans toxicity	EC50 = 0.016 mg/l	48 h	Daphnia magna
		Fish toxicity	NOEC 0.0322 mg/l	28 d	
		Crustaceans toxicity	NOEC 0.00415 ,g/l	21 d	
		Acute bacteria toxicity	(EC50 7.75 mg/l)	3 h	



12.2	2 Persistence and degradability							
Persi	stence and	degradability						
Cas	no	Name of	Methode	d	Value	Asessment		
67-6	53-0	Propan-2-ol	Biodegradation	21	95%	Readily biodegradable (according to OECD criteria).		
102	-71-6	2,2',2"- Nitrilotriethano I	Biodegradation	5	100%	Readily biodegradable (according to OECD criteria).		
12.3	Bioaccumu	ilation						
Bioa There	ccumulation is no inform	ation available.						
Cas	no	Name of substan	ce	Log Pow	BCF	Species		
67-6	53-0	Propan-2-ol		0.05	0.994			
106	-97-8	Butane		1.09				
74-9	98-6	Propane		1.09				
102	-71-6	2,2',2"-Nitrilotrie	thanol	-2.3	<0.4	Cyprinus carpio		
854	09-22-9	Alkyl (C12-C14) d ammonium chlor C14))	imethyl benzyl ide (ADBAC (C12-	-0.21	79	Lepomis macrochirus		
12.4	Mobility in	<u>ı soil</u>						
Mob	ility		There is no i	There is no information available.				
12.5	<u>Results of</u>	PBT and vPvB as	sesment					
Evalı	lation		The substan Annex XIII.	The substances in the mixture do not fulfil the PBT/vPvB criteria according to REACH, Annex XIII.				
12.6	<u>Endocrine</u>	disrupting prope	rties					
Endo	crine disrup	ting potential	This product towards non criteria.	This product does not contain any substance with endocrine disrupting properties towards non-target organisms at a concentration of \geq 0.1%, as no ingredient fulfils the criteria.				
12.7	Other adve	erse effects						
Other adverse effects		There is no i <i>Further infor</i> Avoid releas	There is no information available. <i>Further information:</i> Avoid release into the environment.					
13.	13. Disposal considerations							
13.1	Waste trea	atment methods						
Waste from residues / unused products			Do not let th Dispose of ir	Do not let the product end up in sewers or watercourses. Dispose of in accordance with applicable local and national regulations.				
Euro	pean list of v	waste products	16 05 04 WA and discarde hazardous su	16 05 04 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances.				
Removal of contaminated packaging		ing Completely a	Completely emptied packaging can be recycled.					



14. Transport information				
Transport per road, rail or inland waterways (ADR/RID/ADN)	 14.1 UN-number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): 14.4 Packing group: 	UN 1950 AEROSOLS 2 Not assigned to a packing group. Danger label: 2.1 Classification code: 5F Special provisions: 190 327 344 625 Limited quantities (LQ): 1 L Excepted quantities: E0 Transport category: 2 Tunnel restriction code: D		
Transport per marine ship (IMDG)	 14.1 UN-number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): 14.4 Packing group: 	UN 1950 AEROSOLS 2.1 Not assigned to a packing group. Marine pollutant: not available. Danger label: 2.1 Special provisions: 63 190 277 327 344 381 959 Limited quantities (LQ): 1 L Excepted quantities: E0 EmS: F-D, S-U		
Transport by air (ICAO-IATA)	 14.1 UN-number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): 14.4 Packing group: 	UN 1950 AEROSOLS, FLAMMABLE 2.1 Not assigned to a packing group. Danger label: 2.1 Special provisions: A145 A167 A802 Limited quantities (LQ) passenger: 30 kg Passenger LQ: Y203 Excepted quantities: E0 IATA packing instruction – passenger: 203 IATA maximum quantity – passenger: 75 kg IATA packing instruction – cargo: 203 IATA maximum quantity – cargo: 150 kg		



14.5	Environmental hazards			
Envir	ivironmentally hazard No.			
Mari	arine pollutant Not available.			
14.6	Special precautions for user			
Caution: flammable gases. No special precautions are required.				
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			
Relev	vant EU rule(s)	Restrictions on use (REACH, Annex XVII): Entry 3, Entry 40, Entry 75. Information on IE Guideline 2010/75/EU (VOC): 99.76 % (673.38 g/l). Information on the VOC Guideline 2004/42/EC: 99.819 % (673.777 g/l). Information on the SEVESO III Guideline 2012/18/EU: P3a Flammable Aerosols. Additional information: Aerosol Directive (75/324/EEC).		
Natio	onal regulations	Germany Employment restrictions: Observe the employment restrictions for young people (§ 22 JArbSchG). Water hazard class: 1 – slightly dangerous to water. Status: Classification of mixture according to Annex 1, no. 5 AwSV.		
15.2	15.2 Chemical Safety Assessment			
No ch	emical safety assessments have beer	n carried out for substances in this mixture.		



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: http://apps.echa.europa.eu/registered/registered-sub.aspx#search.		
(EU)H-statement(s)	 H220 Extremely flammable gas. H222 Extremely flammable aerosol. H225 Highly flammable liquid and vapour. H229 Pressurized container: may burst if heated. H280 Contains gas under pressure; may explode if heated. H301 Toxic if swallowed. H302 Harmful if swallowed. H314 Causes serious skin burns and eye damage. H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. 		
Classification procedure	Classification of mixtures and assessment method used according to Regulation (EC) No 1272/2008 [CLP].		
	Classification	Classification procedure	
	Aerosol 1; H222-H229	Based on test data	
	Eye Irrit. 2; H319	Bridging principle "Aerosols"	
	STOT SE 3; H336	Bridging principle "Aerosols"	
	 (EC) No 1907/2006 / GHS: Globally Harmonized System of Classifi UN: United Nations. CAS: Chemical Abstracts Service number. DNEL: Derived No Effect Level. DMEL: Derived Minimal Effect Level. PNEC: Predicted No Effect Concentration (substance will produce no effect). ATE: Acute toxicity estimate. LC50: Lethal Concentration to 50 % of a test LD50: Lethal Dose to 50% of a test population LL50: Effect loading, 50%. EL50: Effect loading, 50%. EC50: Effective Concentration 50%, growth NOEC: No Observed Effect Concentration. BCF: Bio-Concentration Factor. PBT: persistent, bioaccumulative and toxic s vPvB : very persistent and very bioaccumula ADR: Accord européen relatif au transport in par Route (European Agreement concerning Goods by Road). RID: Regulations concerning the Internation 	ication and Labelling of Chemicals. (concentration below which exposure to a population. on (Median Lethal Dose). rate. ubstance. tive. nternational des marchandises Dangereuses ng the International Carriage of Dangerous al carriage of Dangerous goods by rail. nternational des marchandises Dangereuses	
	par voies de Navigation intérieur (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways).		



IMDG: International Maritime Dangerous Goods code.
EmS: Emergency Schedule.
MFAG: Medical First Aid Guide.
IATA: International Air Transport Association (provisions concerning the international
carriage of dangerous goods by air).
ICAO: International Civil Aviation Organization.
MARPOL: International Convention for the Prevention of Marine Pollution from Ships.
IBC: Intermediate Bulk Container.
VOC: Volatile organic component.
SVHC: Substances of Very High Concern.

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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