

MSDS MATERIAL SAFETY DATA SHEET		0.1 Product	Berkenteerolie
		0.2 Status	Active
		0.3 Version	2
		0.4 Version date	30-03-2023
1. Identification of the product and of the company			
1.1 Product identification			
Product name		<i>Berkenteerolie</i>	
Trade name		<i>Berkenteerolie / Birkenteeröl / Birch tar oil / Huile de goudron de bouleau</i>	
Article code		BERK0005	
Chemical description		Substance	
UFI		-	
REACH registration number		-	
1.2 Relevant identified uses of the substance or mixture and uses advised against			
Identified use(s)		Perfume, fragrance, flavouring agent.	
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 <u>Classification according to Regulation (EC) no. 1272/2008:</u> Acute Tox. 4; Acute toxicity (oral), category 4; H302 Acute Tox. 4; Acute toxicity (dermal), category 4; H312 Skin Corr. 1B; Skin corrosion, category 1B; H314 Eye Dam. 1; Serious eye damage, category 1; H318 Skin Sens. 1; Skin sensitization, category 1; H317 Muta. 2; Germ cell mutagenicity, category 2; H341 Carc. 1B; Carcinogenicity, category 1B; H350 Aquatic Acute 1; Hazardous to the aquatic environment, acute 1; H400 Aquatic Chronic 1; Hazardous to the aquatic environment, chronic 1; H410 <i>Classification procedure:</i> Calculation method. The full text of the (EU)H-statements can be found in section 16.																		
2.2	Label elements <u>Labelling according to Regulation (EC) no. 1272/2008:</u> <table border="1"> <tr> <td>Hazardous component(s)</td><td> 2-methoxy-p-cresol Phenol; carbolic acid; monohydroxybenzene; phenylalcohol 2-methoxy-4-propylphenol Isoeugenol 1,2-dihydroxybenzene; pyrocatechol Dipentene; limonene Eugenol Anthracene </td></tr> <tr> <td>Hazard pictogram(s)</td><td>  </td></tr> <tr> <td>Signal word</td><td>Danger</td></tr> <tr> <td>Hazard statements</td><td> H350 May cause cancer. H341 Suspected of causing genetic defects. H314 Causes severe skin burns and eye damage. H302+H312 Harmful if swallowed or in contact with skin. H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting effects. </td></tr> <tr> <td>Precautionary measures</td><td> <table> <tr> <td>- General</td><td>P202 Do not handle until all safety precautions have been read and understood.</td></tr> <tr> <td>- Prevention</td><td>P260 Do not breathe dust/fume/gas/mist/vapours/ spray.</td></tr> <tr> <td>- Reaction</td><td>P264 Wash hands thoroughly after handling.</td></tr> <tr> <td>- Storage</td><td>P310 Immediately call a doctor. P330 Rinse mouth. P405 Store locked up.</td></tr> </table> </td></tr> </table>	Hazardous component(s)	2-methoxy-p-cresol Phenol; carbolic acid; monohydroxybenzene; phenylalcohol 2-methoxy-4-propylphenol Isoeugenol 1,2-dihydroxybenzene; pyrocatechol Dipentene; limonene Eugenol Anthracene	Hazard pictogram(s)		Signal word	Danger	Hazard statements	H350 May cause cancer. H341 Suspected of causing genetic defects. H314 Causes severe skin burns and eye damage. H302+H312 Harmful if swallowed or in contact with skin. H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting effects.	Precautionary measures	<table> <tr> <td>- General</td><td>P202 Do not handle until all safety precautions have been read and understood.</td></tr> <tr> <td>- Prevention</td><td>P260 Do not breathe dust/fume/gas/mist/vapours/ spray.</td></tr> <tr> <td>- Reaction</td><td>P264 Wash hands thoroughly after handling.</td></tr> <tr> <td>- Storage</td><td>P310 Immediately call a doctor. P330 Rinse mouth. P405 Store locked up.</td></tr> </table>	- General	P202 Do not handle until all safety precautions have been read and understood.	- Prevention	P260 Do not breathe dust/fume/gas/mist/vapours/ spray.	- Reaction	P264 Wash hands thoroughly after handling.	- Storage	P310 Immediately call a doctor. P330 Rinse mouth. P405 Store locked up.
Hazardous component(s)	2-methoxy-p-cresol Phenol; carbolic acid; monohydroxybenzene; phenylalcohol 2-methoxy-4-propylphenol Isoeugenol 1,2-dihydroxybenzene; pyrocatechol Dipentene; limonene Eugenol Anthracene																		
Hazard pictogram(s)																			
Signal word	Danger																		
Hazard statements	H350 May cause cancer. H341 Suspected of causing genetic defects. H314 Causes severe skin burns and eye damage. H302+H312 Harmful if swallowed or in contact with skin. H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting effects.																		
Precautionary measures	<table> <tr> <td>- General</td><td>P202 Do not handle until all safety precautions have been read and understood.</td></tr> <tr> <td>- Prevention</td><td>P260 Do not breathe dust/fume/gas/mist/vapours/ spray.</td></tr> <tr> <td>- Reaction</td><td>P264 Wash hands thoroughly after handling.</td></tr> <tr> <td>- Storage</td><td>P310 Immediately call a doctor. P330 Rinse mouth. P405 Store locked up.</td></tr> </table>	- General	P202 Do not handle until all safety precautions have been read and understood.	- Prevention	P260 Do not breathe dust/fume/gas/mist/vapours/ spray.	- Reaction	P264 Wash hands thoroughly after handling.	- Storage	P310 Immediately call a doctor. P330 Rinse mouth. P405 Store locked up.										
- General	P202 Do not handle until all safety precautions have been read and understood.																		
- Prevention	P260 Do not breathe dust/fume/gas/mist/vapours/ spray.																		
- Reaction	P264 Wash hands thoroughly after handling.																		
- Storage	P310 Immediately call a doctor. P330 Rinse mouth. P405 Store locked up.																		
2.3	Other hazards <table border="1"> <tr> <td>Results of PBT and vPvB assessment</td><td>There is no information available.</td></tr> <tr> <td>Endocrine disrupting properties</td><td>There is no information available.</td></tr> </table>	Results of PBT and vPvB assessment	There is no information available.	Endocrine disrupting properties	There is no information available.														
Results of PBT and vPvB assessment	There is no information available.																		
Endocrine disrupting properties	There is no information available.																		

3. Composition/information on ingredients						
3.1	Substances		Birch tar oil.			
Name component(s)	Weight %	CAS no.	EINECS no.	Index no.	Reach no.	Classification
Birch tar oil		85940-29-0	288-919-5			
<i>Hazardous ingredients:</i>						
Name component(s)	Weight %	CAS no.	EINECS no.	Index no.	Reach no.	Classification
p-cresol	5 ≤ 10	106-44-5	203-398-6	604-004-00-9		
Xylenol	5 ≤ 10	1300-71-6	215-089-3	604-006-00-X		
Alpha-cedrene	5 ≤ 10	11028-42-5	234-257-7			
Mix-cresol	5 ≤ 10	1319-77-3	215-293-2	604-004-00-9		
Guaiacol	5 ≤ 10	90-05-1	201-964-7	604-031-00-6		
2-methoxy-p-cresol	5 ≤ 10	93-51-6	202-252-9			
2,6-dimethoxyphenol	5 ≤ 10	91-10-1	202-041-1			
4-ethylguaiacol	5 ≤ 10	2785-89-9	220-500-4			
Phenol; carbolic acid; monohydroxybenzene; phenylalcohol	3 ≤ 5	108-95-2	203-632-7	604-001-00-2		
2-methoxy-4-propylphenol	1 ≤ 3	2785-87-7	220-449-0			
Isoeugenol	1 ≤ 5	97-54-1	202-590-7	604-094-00-X		
2-hydroxy-3-methylcyclopent-2-enone	1 ≤ 5	80-71-7	201-303-2			
1,2-dihydroxybenzene; pyrocatechol	0.5 ≤ 1	120-80-9	204-427-5	604-016-00-4		
Naphthalene	0.5 ≤ 1	91-20-3	202-049-5	601-052-00-2		
1-(2,6-dihydroxy-3-methyl-phenyl)ethanone	0.5 ≤ 1	29183-78-6				
Dipentene; limonene	0.5 ≤ 1	138-86-3	205-341-0	601-029-00-7		
Eugenol	0,5 ≤ 1	97-53-0	202-589-1			
2-furaldehyde	< 0,5	98-01-1	202-627-7	605-010-00-4		
Anthracene	0.1 ≤ 0.5	120-12-7	204-371-1			
Phenanthrene	0.25 ≤ 0.5	85-01-8	201-581-5			
SCL, M-factor and ATE						
Name component(s)	CAS no.		SCL, M-factor, ATE			
Alpha-cedrene	11028-42-5		M=10			

3.2	Mixtures	Not relevant (substance).
4. First aid measures		
4.1	Description of first aid measures	
General		Change contaminated, saturated clothing.
First aid measures in case of inhalation		Provide fresh air. In case of respiratory tract irritation, consult a physician. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.
First aid measures in case of skin contact		After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician. In case of skin reactions, consult a physician.
First aid measures in case of eye contact		Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.
First aid measures in case of ingestion		Rinse mouth thoroughly with water. Seek medical advice immediately (poison centre).
4.2	Most important symptoms and effects, both acute and delayed	
There is no information available.		
4.3	Indication of any immediate medical attention and special treatment needed	
When in doubt or if symptoms are observed, get medical advice.		
5. Firefighting measures		
5.1	Extinguishing media	
Suitable extinguishing media		Sand, foam, carbon dioxide (CO2) , dry extinguishing powder.
Unsuitable extinguishing media		Water.
5.2	Special hazards arising from the substance or mixture	
Special exposure hazards		None.
5.3	Advice for firefighters	
Special protective equipment		Wear a self-contained breathing apparatus and chemical protective clothing.
Special procedures		Move undamaged containers from immediate hazard area if it can be done safely. Remove product from area of fire. Do not allow extinguishing water to enter drains or water courses.
6. Accidental release measures		
6.1	Personal precautions, protective equipment and emergency procedures	
Personal precautions		For non-emergency personnel: Use personal protection equipment. Remove all sources of ignition. Provide adequate ventilation. For emergency responders: There is no information available.

6.2	<u>Environmental precautions</u>					
Environmental precautions			Do not allow to enter into surface water or drains. Treat the recovered material as prescribed in the section on waste disposal.			
6.3	<u>Methods and material for containment and cleaning up</u>					
Methods for cleaning up			Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Pick up mechanically and place in appropriate containers for disposal.			
6.4	<u>Reference to other sections</u>					
Personal protection			See section 8.			
Removal of the waste product			See section 13.			
7. Handling and storage						
7.1	<u>Precautions for safe handling</u>					
Handling			Wear personal protection equipment (see section 8). Do not eat, drink, smoke or sniff at the workplace. Always close containers tightly after the removal of product. Use only in well-ventilated areas.			
7.2	<u>Conditions for safe storage, including any incompatibilities</u>					
Storage			Storage class (LGK) TRGS 510 : 6.1C.			
Protection against fire and explosion			Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking.			
Packaging material			There is no information available.			
Unsuitable packaging material			There is no information available.			
7.3	<u>Specific end use(s)</u>					
No further relevant information available.						
8. Exposure controls/personal protection						
8.1	<u>Control parameters</u>					
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
85940-29-0	Birch tar oil				50	RCP-TRGS 900 (DE)
106-44-5	<i>p</i> -cresol		3.5			REACH
		5	22			EC
		1	4.5			TRGS 900 (DE)
1319-77-3	Mix-cresol		3.5		0.9	REACH (inhalatory – systemic)
			0.9		0.9	REACH (inhalatory – local)
		5	22			EC
		1	4.5			TRGS 900 (DE)

108-95-2	Phenol		8		16	REACH
		2	8	4	16	EC
		2	8	4	16	TRGS 900 (DE)
91-20-3	Naphthalene		50		80	NL
		10	50			EC
			25			REACH
		0.4	2	1.6	8	TRGS 900 (DE)
138-86-3	Limonene		33.3			REACH
120-80-9	1,2-dihydroxy-benzene		1			REACH
TWA-8h= (time-weighted average) long-term exposure limit; TWA-15 min = short-term exposure limit; E = inhalable fraction						

Biological limit values

Cas no	Name of agent	Parameter	Value	Source
108-95-2	Phenol	Phenol / urine (U) / end of exposure or shift	120 mg/g creatinine	TRGS 903 (DE)

DNELs

Relevant DNELs of components of the mixture						
Name of agent	Cas no	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
p-cresol	106-44-5	DNEL	2.47 mg/m ³	Human, inhalatory	Worker	Chronic - systemic effects
		DNEL	12.35 mg/m ³	Human, inhalatory	Worker	Acute – systemic effects
		DNEL	0.7 mg/kg BW/d	Human, dermal	Worker	Chronic - systemic effects
		DNEL	3.5 mg/kg BW/d	Human, dermal	Worker	Acute – systemic effects
		DNEL	0.43 mg/m ³	Human, inhalatory	Consumer	Chronic - systemic effects
		DNEL	2.15 mg/m ³	Human, inhalatory	Consumer	Acute – systemic effects
		DNEL	0.25 mg/kg BW/d	Human, dermal	Consumer	Chronic - systemic effects
		DNEL	1.25 mg/kg BW/d	Human, dermal	Consumer	Acute – systemic effects
		DNEL	0.25 mg/kg BW/d	Human, oral	Consumer	Chronic - systemic effects
		DNEL	1.25 mg/kg BW/d	Human, oral	Consumer	Acute – systemic effects
Mix-cresol	1319-77-3	DNEL	3.5 mg/m ³	Human, inhalatory	Worker	Chronic - systemic effects
		DNEL	0.9 mg/m ³	Human, inhalatory	Worker	Chronic – local effects
		DNEL	0.9 mg/m ³	Human, inhalatory	Worker	Acute – local effects
Phenol	108-95-2	DNEL	8 mg/m ³	Human, inhalatory	Worker	Chronic - systemic effects
		DNEL	16 mg/m ³	Human, inhalatory	Worker	Acute – local effects
		DNEL	1.23 mg/kg BW/d	Human, dermal	Worker	Chronic - systemic effects
		DNEL	0.452 mg/m ³	Human, inhalatory	Consumer	Chronic - systemic effects
		DNEL	0.5 mg/kg BW/d	Human, dermal	Consumer	Chronic - systemic effects
		DNEL	0.5 mg/kg BW/d	Human, oral	Consumer	Chronic - systemic effects
2-methoxy-4-propyl-phenol	2785-87-7	DNEL	6.07 mg/m ³	Human, inhalatory	Worker	Chronic - systemic effects
		DNEL	1.74 mg/kg BW/d	Human, dermal	Worker	Chronic - systemic effects
		DNEL	1.52 mg/m ³	Human, inhalatory	Consumer	Chronic - systemic effects
		DNEL	0.86 mg/kg BW/d	Human, dermal	Consumer	Chronic - systemic effects
		DNEL	0.86 mg/kg BW/d	Human, oral	Consumer	Chronic - systemic effects
Naphthalene	91-20-3	DNEL	25 mg/m ³	Human, inhalatory	Worker	Chronic - systemic effects
		DNEL	25 mg/m ³	Human, inhalatory	Worker	Chronic – local effects
		DNEL	3.57 mg/kg BW/d	Human, dermal	Worker	Chronic - systemic effects
1,2-dihydroxy-benzene	120-80-9	DNEL	0.9 mg/m ³	Human, inhalatory	Worker	Chronic - systemic effects

		DNEL	85 mg/m ³	Human, inhalatory	Worker	Acute – systemic effects
Eugenol	97-53-0	DNEL	21.2 mg/m ³	Human, inhalatory	Worker	Chronic - systemic effects
		DNEL	6 mg/kg BW/d	Human, dermal	Worker	Chronic - systemic effects
		DNEL	5.22 mg/m ³	Human, inhalatory	Consumer	Chronic - systemic effects
		DNEL	3 mg/kg BW/d	Human, dermal	Consumer	Chronic - systemic effects
		DNEL	3 mg/kg BW/d	Human, oral	Consumer	Chronic - systemic effects

PNECs

Relevant PNECs of components of the mixture						
Name of substance	Cas no	End-point	Threshold level	Organism	Environmental compartment	Exposure time
<i>p</i> -cresol	106-44-5	PNEC	0.1 mg/l		Fresh water	
		PNEC	0.044 mg/l		Fresh water	Intermittent release
		PNEC	0.01 mg/l		Marine water	
		PNEC	1.65 mg/l	Micro-organisms	Sewage treatment	
		PNEC	0.85 mg/kg		Freshwater sediments	
		PNEC	0.08 mg/kg		Marine sediments	
		PNEC	0.111 mg/kg		Soil	
Mix-cresol	1319-77-3	PNEC	0.1 mg/l		Fresh water	
		PNEC	0.044 mg/l		Fresh water	Intermittent release
		PNEC	3 µg/l		Marine water	
		PNEC	1.14 mg/l	Micro-organisms	Sewage treatment	
		PNEC	327.83 µg/kg		Freshwater sediments	
		PNEC	9.83 µg/kg		Marine sediments	
		PNEC	57.32 µg/kg		Soil	
Phenol	108-95-2	PNEC	0.008 mg/l		Fresh water	
		PNEC	0.031 mg/l		Fresh water	Intermittent release
		PNEC	0.001 mg/l		Marine water	
		PNEC	2.1 mg/l	Micro-organisms	Sewage treatment	
		PNEC	0.091 mg/kg		Freshwater sediments	
		PNEC	0.009 mg/kg		Marine sediments	
		PNEC	0.136 mg/kg		Soil	
2-methoxy-4-propylphenol	2785-87-7	PNEC	3.3 µg/l		Fresh water	
		PNEC	0.033 µg/l		Fresh water	Intermittent release
		PNEC	0.33 µg/l		Marine water	
		PNEC	3.3 µg/l		Marine water	Intermittent release
		PNEC	10 mg/l	Micro-organisms	Sewage treatment	
		PNEC	0.089 mg/kg		Freshwater sediments	

		PNEC	0.009 mg/kg		Marine sediments	
		PNEC	0.016 mg/kg		Soil	
		PNEC	41.5 mg/kg		Secondary poisoning	
Naphthalene	91-20-3	PNEC	2.4 µg/l		Fresh water	
		PNEC	20 µg/l		Fresh water	Intermittent release
		PNEC	2.4 µg/l		Marine water	
		PNEC	2.9 mg/l	Micro-organisms	Sewage treatment	
		PNEC	67.2 µg/kg		Freshwater sediments	
		PNEC	67.2 µg/kg		Marine sediments	
		PNEC	53.3 µg/kg		Soil	
1,2-Dihydroxy-benzol	120-80-9	PNEC	1.1 µg/l		Fresh water	
		PNEC	11 µg/l		Fresh water	Intermittent release
		PNEC	0.11 µg/l		Marine water	
		PNEC	1.958 mg/l	Micro-organisms	Sewage treatment	
		PNEC	0.017 mg/kg		Freshwater sediments	
		PNEC	0.002 mg/kg		Marine sediments	
		PNEC	0.003 mg/kg		Soil	
Eugenol	97-53-0	PNEC	0.202 mg/l		Fresh water	
		PNEC	11.3 µg/l		Fresh water	Intermittent release
		PNEC	0.02 mg/l		Marine water	
		PNEC	14.488 mg/kg		Freshwater sediments	
		PNEC	1.449 mg/kg		Marine sediments	
		PNEC	0.015 mg/kg		Soil	

8.2 Exposure controls

Engineering measures	There is no information available.
Personal protection equipment	
Eye / face protection	Safety goggles with side protection.
Skin protection	There is no information available.
Hand protection	Tested protective gloves must be worn. Wear cotton undergloves if possible. NBR (Nitrile rubber) DIN EN 374.
Respiratory protection	Usually no personal respiratory protection necessary. Respiratory protection necessary at: dust formation by insufficient ventilation.
Thermal hazards	There is no information available.
Environmental exposure controls	There is no information available.

General measures		Do not eat, drink, smoke or sniff at the workplace. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Wash hands before breaks and after work. Apply skin care products after work.
9. Physical and chemical properties		
9.1	<u>Information on basic physical and chemical properties</u>	
Physical state		Liquid.
Colour		Light red brown.
Odour		Characteristic (according to name) resp. like perfume.
Melting / freezing point		Not available.
Boiling point / range (1013 hPa)		> 180 °C.
Flammability		Not available.
Explosion limits		Lower explosion limit: not available. Upper explosion limit: not available.
Flash point		68 °C.
Auto-ignition temperature		Not available.
Decomposition temperature		Not available.
pH		Not available.
Kinematic viscosity		Not available.
Solubility		Soluble in various organic solvents. Practically insoluble in water.
Partition coefficient n-octanol/water		Not available.
Vapour pressure		< 300 hPa.
Density or relative density		1.04 g/cm³ by 20 °C.
Relative vapour density		Not available.
Particle characteristics		Not available.
9.2	<u>Other information</u>	
Other information		No further relevant information available.
10. Stability and reactivity		
10.1	<u>Reactivity</u>	
Reactivity		There is no information available.
10.2	<u>Chemical stability</u>	
Stability		There is no information available.
10.3	<u>Possibility of hazardous reactions</u>	
Hazardous reactions		No hazardous reaction when handled and stored as intended.

10.4	<u>Conditions to avoid</u>	
Conditions to avoid		There is no information available.
10.5	<u>Incompatible materials</u>	
Materials to avoid		There is no information available.
10.6	<u>Hazardous decomposition products</u>	
Hazardous decomposition products		No known hazardous decomposition products.
11. Toxicological information		
11.1	<u>Information on hazard classes as defined in Regulation (EC) No. 1272/2008</u>	
Acute toxicity		Harmful if swallowed or in contact with skin.
Skin corrosion / irritation		Causes severe skin burns.
Serious eye damage / irritation		Causes severe eye damage.
Respiratory or skin sensitisation		May cause an allergic skin reaction.
Germ cell mutagenicity		Suspected of causing genetic defects.
Carcinogenicity		May cause cancer.
Reproductive toxicity		Based on available data, the classification criteria are not met.
Specific target organ toxicity – single exposure		Based on available data, the classification criteria are not met.
Specific target organ toxicity – repeated exposure		Based on available data, the classification criteria are not met.
Aspiration hazard		Based on available data, the classification criteria are not met.
11.2	<u>Information on other hazards</u>	
Other hazards		No further relevant information available.
12. Ecological information		
12.1	<u>Toxicity</u>	
Ecotoxicity		Very toxic to aquatic life with long lasting effects.
12.2	<u>Persistence and degradability</u>	
Persistence and degradability		There is no information available.
12.3	<u>Bioaccumulation</u>	
Bioaccumulation		There is no information available.
12.4	<u>Mobility in soil</u>	
Mobility		There is no information available.

12.5	<u>Results of PBT and vPvB assesment</u>	
Evaluation	There is no information available.	
12.6	<u>Endocrine disrupting properties</u>	
Endocrine disrupting potential	There is no information available.	
12.7	<u>Other adverse effects</u>	
Other adverse effects	No further relevant information available.	
13.	Disposal considerations	
13.1	<u>Waste treatment methods</u>	
Waste from residues / unused products	Dispose of in a hazardous waste incinerator in accordance with official regulations. Evidence for disposal must be provided.	
European list of waste products	The allocation of waste identity numbers/waste descriptions must be carried out according to the European Economic Community (EEC), specific to the industry and process.	
Removal of contaminated packaging	Dispose of in a hazardous waste incinerator in accordance with official regulations. Evidence for disposal must be provided.	
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 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (P-CRESOL · XYLENOL) 8 II Danger label: 6.1 / 8  Classification code: CT1 Hazard identification no.: 86 Special provisions: 274 Excepted quantities: E2 Limited quantities (LQ): 1 L Transport category: 2 Tunnel restriction code: E

MSDS

Material Safety Data Sheet

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 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (P-CRESOL · XYLENOL · ALPHA-CEDRENE · NAPHTHALENE) 8 II Marine pollutant: Yes Danger label: 6.1 / 8  Special provisions: 274 Excepted quantities: E2 Limited quantities: 1 L EmS: F-A, S-B Stowage category: B- SW2.
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 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (P-CRESOL · XYLENOL · MIX-CRESOL) 8 / 6.1 II Danger label: 6.1 / 8  Special provisions: Not available Excepted quantities: E2
14.5	Environmental hazards		
Environmentally hazard		Yes.	
Marine pollutant		Yes.	
14.6	Special precautions for user		
None.			
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)		Restrictions on use (REACH, Annex XVII): Entry 3, 28, 29, 40.	

National regulations	The national legal regulations must also be observed! Germany <i>Technical Instructions on Air Quality Control (TA-Luft):</i> Weight percentage (Item 5.2.5. I) : 25 - 30 %. <i>Water hazard class (WGK):</i> Class: 2 (Significant hazardous to water) Classification according to AwSV. <i>Industrial Safety Ordinance (BetrSichV):</i> Not a flammable liquid according to BetrSichV.
15.2	<u>Chemical Safety Assessment</u>
There is no information available.	
16.	<u>Other information</u>
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)	H226 Flammable liquid and vapour. H228 Flammable solid. H301 Toxic if swallowed. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H341 Suspected of causing genetic defects. H350 May cause cancer. H351 Suspected of causing cancer. 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. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
Classification procedure	There is 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. Aquatic Chronic: Hazardous to the aquatic environment – chronic. ATE: Acute toxicity estimate. Carc.: Carcinogenicity.

CAS: Chemical Abstracts Service.
 CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.
 DGR: Dangerous Goods Regulations.
 DNEL: (Derived No Effect Level): abgeleitete Expositionshöhe ohne Beeinträchtigung.
 DMEL: Derived Minimal Effect Level (abgeleitete Expositionshöhe mit minimaler Beeinträchtigung).
 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.
 EmS: Emergency Schedule.
 Eye Dam. Seriously damaging to the eye.
 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.
 LGK: Lagerklasse (storage class according to TRGS 510, Germany).
 Muta.: Germ cell mutagenicity.
 M-factor: Multiplication factor.
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
 RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
 SCL: Specific concentration limit.
 Skin Corr.: Skin corrosion.
 Skin Sens.: Skin sensitization.
 TRGS: Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany).
 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.

End of document