Version



Date of last issue: 26.06.2024

Piliguard Pinkeye-1 Formulation

SDS Number:

Revision Date:

Version 2.0	Revision Date: 06.07.2024		DS Numbe 1359152-00		Date of last issue: 26.06.2024 Date of first issue: 29.02.2024
SECTIO	N 1: Identification of	the	substan	ce/mixt	ure and of the company/undertaking
1.1 Produ	uct identifier				
Trad	le name	:	Piliguard	Pinkeye	-1 Formulation
Othe	er means of identification	:			ye-1 Trivalent (A008192) LIS PILIGUARD PINKEYE VACCINE
1.2 Relev	ant identified uses of t	he :	substance	or mixt	ure and uses advised against
	of the Sub- ce/Mixture	:	Veterina	ry produ	ct
Reco on u	ommended restrictions se	:	Not appli	icable	
1.3 Detai	Is of the supplier of the	e sa	fety data s	sheet	
	ipany	:	MSD		
			20 Spart		outh Africa
					outin Anica
Tele	phone	:	+271192	39300	
	ail address of person onsible for the SDS	:	EHSDAT	ASTEW	ARD@msd.com
	gency telephone numb 08-423-6000	er			
SECTIO	N 2: Hazards identific	cati	on		
2.1 Class	sification of the substar	nce	or mixture	9	
Clas	sification (REGULATIO)N (EC) No 12	72/2008	
Aspi	ration hazard, Category	1			May be fatal if swallowed and enters air-
	Long-term (chronic) aquatic ha		ard, Cat-	ways. H413: aquati	May cause long lasting harmful effects to c life.
2.2 Labe	l elements				
Labe	elling (REGULATION (E	C) I	No 1272/20	008)	
Haza	ard pictograms	:		>	
Sign	al word	:	Danger		
Haza	ard statements	:	H304 M	lay be fa	tal if swallowed and enters airways.
				1/10	



Version 2.0	Revision Date: 06.07.2024	SDS Num 11359152		Date of last issue: 26.06.2024 Date of first issue: 29.02.2024	
		H413	May cause	e long lasting harmful effects to aquatic life.	
Precautionary statements :		: Prevei P273	Prevention:		
			⊦ P310 IF ER/ doctor.	SWALLOWED: Immediately call a POISON duce vomiting.	
		Storag P405	je: Store lock	ed up.	
Hazar	dous components whic	h must be l	isted on the	label:	

Paraffin oil

Additional Labelling

EUH208 Contains Formaldehyde. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative tive and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Paraffin oil	8012-95-1 232-384-2	Asp. Tox. 1; H304 Aquatic Chronic 4; H413	>= 50 - < 70
Antigen	Not Assigned		>= 20 - < 30
Benzyl alcohol	100-51-6 202-859-9 603-057-00-5	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319	>= 0,1 - < 1
Formaldehyde	50-00-0 200-001-8 605-001-00-5 01-2119488953-20	Flam. Gas 1B; H221 Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317	< 0,1



Version 2.0	Revision Date: 06.07.2024	SDS Number: 11359152-00004	Date of last issue: 26.06.2024 Date of first issue: 29.02.2024	
			Muta. 2; H341 Carc. 1B; H350 STOT SE 3; H335	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control centre immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Risks	: May be fatal if swallowed and enters airways.	

4.3 Indication of any immediate medical attention and special treatment needed Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.





Ver 2.0	sion	Revision Date: 06.07.2024		S Number: 359152-00004	Date of last issue: 26.06.2024 Date of first issue: 29.02.2024
5.2 Special hazards arising from Specific hazards during fire- fighting			e substance or mixture Exposure to combustion products may be a hazard to he		
	Hazard ucts	ous combustion prod-	:	Carbon oxides	
5.3	Advice	for firefighters			
	Special for firef	protective equipment ighters	:		e, wear self-contained breathing apparatus. rective equipment.
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.



Version	Revision Date:	SDS Number:	Date of last issue: 26.06.2024	
2.0	06.07.2024	11359152-00004	Date of first issue: 29.02.2024	

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Avoid inhalation of vapour or mist.
C		Do not swallow.
		Avoid contact with eyes.
		Avoid prolonged or repeated contact with skin.
		Handle in accordance with good industrial hygiene and safety
		practice, based on the results of the workplace exposure as-
		sessment
		Keep container tightly closed.
		Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye
		flushing systems and safety showers close to the working
		place. When using do not eat, drink or smoke. Wash contami-
		nated clothing before re-use.
		The effective operation of a facility should include review of
		engineering controls, proper personal protective equipment,
		appropriate degowning and decontamination procedures,
		industrial hygiene monitoring, medical surveillance and the use of administrative controls.
7.2 Conditions for safe storage	, incl	luding any incompatibilities
Requirements for storage	:	Keep in properly labelled containers. Store locked up. Keep
areas and containers		tightly closed. Store in accordance with the particular national
		regulations.
Advice on common storage		Do not store with the following product types:
Advice on common storage	•	Strong oxidizing agents
		Gases
		04303

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Formaldehyde	50-00-0	OEL- ML	0,2 ppm	ZA OEL
	Hazardous Cł mal sensitisat	nemical Agents, derr ion, respiratory sens denotes carcinogeni	Exposure Limits - Maximum nal sensitisation, potential to itisation, potential to produce city, which is based on GHS	produce der- respiratory categorisation,
		OEL - ML	0,6 ppm	ZA OEL



Version 2.0	Revision Date: 06.07.2024	SDS Number: 11359152-00004	Date of last issue: 26.0 Date of first issue: 29.0	
		STEL/C		
	Ha ma sei	zardous Chemical Agents al sensitisation, respiratory	tional Exposure Limits - M s, dermal sensitisation, pol v sensitisation, potential to ogenicity, which is based	tential to produce der- produce respiratory
		TWA	0,3 ppm 0,37 mg/m3	2004/37/EC
		STEL	0,6 ppm 0,74 mg/m3	2004/37/EC

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Paraffin oil	Workers	Inhalation	Long-term systemic effects	5 mg/m3
	Workers	Inhalation	Short-term exposure	5 mg/m3
	Workers	Inhalation	Long-term local ef- fects	5 mg/m3
	Workers	Inhalation	Acute local effects	5 mg/m3
Benzyl alcohol	Workers	Inhalation	Long-term systemic effects	22 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	110 mg/m3
	Workers	Skin contact	Long-term systemic effects	8 mg/kg bw/day
	Workers	Skin contact	Acute systemic ef- fects	40 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	5,4 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	27 mg/m3
	Consumers	Skin contact	Long-term systemic effects	4 mg/kg bw/day
	Consumers	Skin contact	Acute systemic ef- fects	20 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	4 mg/kg bw/day
	Consumers	Ingestion	Acute systemic ef- fects	20 mg/kg bw/day
Formaldehyde	Workers	Inhalation	Long-term systemic effects	9 mg/m3
	Workers	Inhalation	Long-term local ef- fects	0,375 mg/m3
	Workers	Inhalation	Acute local effects	0,75 mg/m3
	Workers	Skin contact	Long-term systemic effects	240 mg/kg bw/day
	Workers	Skin contact	Long-term local ef- fects	0,037 mg/cm2
	Consumers	Inhalation	Long-term systemic effects	3,2 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	0,1 mg/m3



Version 2.0	Revision Date: 06.07.2024	SDS I 11359		oer: 00004		f last issue: 26.06.202 f first issue: 29.02.202		
		Consumers		Skin cont	act	Long-term systemic effects	;	102 mg/kg bw/day
		Consumers	;	Skin cont	act	Long-term local ef- fects		0,012 mg/cm2
		Consumers	;	Ingestion		Long-term systemic effects	;	4,1 mg/kg bw/day
Predi	icted No Effect Co	oncentration	n (PN	EC) acco	rding to	Regulation (EC) No	. 19	07/2006:
Subs	tance name		Envir	onmental (Comparti	ment	Va	lue
Benz	yl alcohol		Fresh water			1 r	ng/l	
	-	1	Marine water				1 mg/l	
			Intermittent use/release				3 mg/l	
		\$	Sewage treatment plant			39	mg/l	
		I	Fresh water sediment Marine sediment			5,2	27 mg/kg	
		1					527 mg/kg	
		\$	Soil			0,4	156 mg/kg	
Form	aldehyde	I	Fresh water			0,4	14 mg/l	
		I	Freshwater - intermittent			4,44 mg/l		
		1	Marir	e water			0,4	14 mg/l
			Sewa	ige treatm	ent plant		0,1	19 mg/l
		I	Fresh	sh water sediment			2,3	3 mg/kg dry
								eight (d.w.)
		1	Marir	ie sedimer	nt			3 mg/kg dry
								eight (d.w.)
			Soil					2 mg/kg dry
							we	eight (d.w.)

8.2 Exposure controls

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

Personal protective equipment

Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Hand protection		
Material	:	Chemical-resistant gloves
Remarks Skin and body protection	:	Consider double gloving. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.



Version 2.0	Revision Date: 06.07.2024	SDS Number: 11359152-00004	Date of last issue: 26.06.2024 Date of first issue: 29.02.2024
Resp	iratory protection	contaminated of If adequate local sure assessme	e degowning techniques to remove potentially lothing. al exhaust ventilation is not available or expo- nt demonstrates exposures outside the rec- delines, use respiratory protection.
Fil	ter type		culates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	suspension No data available No data available No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies)		
Water solubility Partition coefficient: n-	:	No data available Not applicable
octanol/water	•	
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive



Version 2.0	Revision Date: 06.07.2024	SDS Number: 11359152-00004	Date of last issue: 26.06.2024 Date of first issue: 29.02.2024
Oxidi	zing properties	: The substan	ce or mixture is not classified as oxidizing.
• • • • • • • •	information mability (liquids)	: No data ava	ilable
Moleo	cular weight	: No data avai	ilable
Partic	cle size	: No data avai	ilable

SECTION 10: Stability and reactivity

10.1 Reactivity Not classified as a reactivity	hazard
10.2 Chemical stability	
Stable under normal conditio	
10.3 Possibility of hazardous re	
Hazardous reactions	: Can react with strong oxidizing agents.
10.4 Conditions to avoid	
Conditions to avoid	: None known.
10.5 Incompatible materials	
Materials to avoid	: Oxidizing agents
10.6 Hazardous decomposition No hazardous decompositior	-
SECTION 11: Toxicological i	nformation
11.1 Information on toxicologic	al effects
Information on likely routes of	f : Inhalation
exposure	Skin contact
	Ingestion
	Eye contact
Acute toxicity	
Not classified based on avail	able information.
Components:	
Paraffin oil:	
Acute oral toxicity	: LD50 (Rat): > 5.000 mg/kg
Acute dermal toxicity	: LD50 (Rabbit): > 2.000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity

SAFETY DATA SHEET



ersion .0	Revision Date: 06.07.2024	SDS Number: 11359152-00004	Date of last issue: 26.06.2024 Date of first issue: 29.02.2024				
Benz	yl alcohol:						
Acute	oral toxicity	: LD50 (Rat): 1	.620 mg/kg				
Acute	inhalation toxicity	Exposure tim Test atmosph	LC50 (Rat): > 4,178 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403				
Form	aldehyde:						
	oral toxicity	Method: Exp	estimate: 100 mg/kg ert judgement sed on national or regional regulation.				
Acute	inhalation toxicity	Exposure tim Test atmosph	Acute toxicity estimate (Rat): 100 ppm Exposure time: 4 h Test atmosphere: gas Method: Expert judgement				
Acute	e dermal toxicity	: LD50 (Rabbit): 270 mg/kg				
		: Rabbit : No skin irritat	ion				
Bonz	yl alcohol:						
Speci		: Rabbit					
Metho	bd	: OECD Test C					
Resul	lt	: No skin irritat	ion				
Form	aldehyde:						
Resul Rema			er 3 minutes to 1 hour of exposure ional or regional regulation.				
	us eye damage/eye lassified based on ava						
Com	oonents:						
Paraf	fin oil:						
Speci Resul		: Rabbit : No eye irritat	on				
Benz	yl alcohol:						
Speci	es	: Rabbit					
Metho	bd	: OECD Test C					
Resul	IC	: irritation to ey	ves, reversing within 21 days				



ersion .0	Revision Date: 06.07.2024		Number: 9152-00004	Date of last issue: 26.06.2024 Date of first issue: 29.02.2024		
Form	aldehyde:					
Resu	lt	: Ir	reversible effe	cts on the eye		
Rema	arks	: B	ased on skin o	corrosivity.		
Resp	iratory or skin sens	itisation				
-	sensitisation lassified based on av	ailable inf	ormation.			
-	iratory sensitisatio					
Not c	lassified based on av	ailable inf	ormation.			
Com	ponents:					
	yl alcohol:	_				
Test			laximisation To kin contact	est		
Speci	sure routes	-	iuinea pig			
Metho			ECD Test Gui	deline 406		
Resu	lt	: n	egative			
Form	aldehyde:					
Test				nsult patch test (HRIPT)		
	sure routes		kin contact			
Speci			lumans			
Resu	IL	. p	ositive			
Asses	ssment		robability or ev nans	vidence of high skin sensitisation rate in hu-		
Germ	cell mutagenicity					
	lassified based on av	ailable inf	ormation.			
<u>Com</u>	oonents:					
Benz	yl alcohol:					
Geno	toxicity in vitro		est Type: Bac esult: negative	erial reverse mutation assay (AMES)		
Geno	toxicity in vivo	C) S	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse			
			esult: negative	te: Intraperitoneal injection		
Form	aldehyde:					
	toxicity in vitro		est Type: Bac esult: positive	erial reverse mutation assay (AMES)		
			est Type: In vi esult: positive	tro mammalian cell gene mutation test		



Revision Date: 06.07.2024			Date of last issue: 26.06.2024 Date of first issue: 29.02.2024
			osome aberration test in vitro
oxicity in vivo	Spec Appli	es: Mouse cation Route	mammalian alkaline comet assay : Inhalation
cell mutagenicity- As- ient		• • •	rom in vivo mammalian somatic cell muta-
n ogenicity assified based on avail	able inform	ation.	
onents:			
l alcohol:			
es ation Route ure time d	: Inges : 103 v : OECI	tion veeks D Test Guide	line 451
aldehyde:			
es ation Route ure time	: 28 M	onths	
ogenicity - Assess-	: Suffic	ient evidenc	e of carcinogenicity in animal experiments
ductive toxicity assified based on avai	able inform	ation.	
onents:			
l alcohol:			
s on fertility	Spec Applie Resu	es: Rat cation Route It: negative	y/early embryonic development : Ingestion on data from similar materials
s on foetal develop-	Spec Appli	es: Mouse cation Route	o-foetal development : Ingestion
aldehyde:			
s on foetal develop-	Spec Appli	es: Rat cation Route	o-foetal development : inhalation (gas)
	06.07.2024 oxicity in vivo cell mutagenicity- As- ent nogenicity assified based on avail onents: rl alcohol: es ation Route ure time d aldehyde: es ation Route ure time d indehyde: assified based on avail onents: rl alcohol: assified based on avail onents: rl alcohol: s on foetal develop-	06.07.2024 11359152 rest Result oxicity in vivo : Test Specia Applia cell mutagenicity- As- : Positi nogenicity assified based on available inform Inges onigenicity : Moustation Route : rest : Moustation Route : Inges ure time : 103 w : OECI ation Route : Inges : negat aldehyde: : : negat aldenyde: : : positive ioogenicity - Assess- : Suffic ioogenicity - Assess : Test	06.07.2024 11359152-00004 Test Type: Chrom Result: positive oxicity in vivo : Test Type: In vivo Species: Mouse Application Route Result: positive cell mutagenicity- As- ent : Positive result(s) figenicity tests. nogenicity assified based on available information. onents: rl alcohol: ass : Mouse ation Route : Ingestion ure time : 103 weeks d : OECD Test Guide ation Route : Inhalation (gas) ure time : 28 Months : positive : positive oogenicity - Assess- : Sufficient evidenc ductive toxicity assified based on available information. onents: : positive iductive toxicity : Sufficient evidenc so in fertility : Test Type: Fertility so in fertility : Test Type: Sectility so on foetal develop- : Test Type: Embry species: Mouse Application Route asplication Route : Result: negative addehyde: : Test Type: Embry

SAFETY DATA SHEET



Version 2.0	Revision Date: 06.07.2024	SDS Number: 11359152-00004	Date of last issue: 26.06.2024 Date of first issue: 29.02.2024			
	Γ - single exposure lassified based on avail	able information.				
Com	ponents:					
	Formaldehyde: Assessment : May cause respiratory irritation.					
	F - repeated exposure lassified based on avail	able information.				
Repe	ated dose toxicity					
Com	ponents:					
Spec LOAE Applie Expo	EL cation Route sure time	: Rat, female : 161 mg/kg : Ingestion : 90 Days				
Spec NOAI Appli	EL cation Route sure time	: Rat : 1,072 mg/l : inhalation (dust : 28 Days : OECD Test Gu				
-	ration toxicity be fatal if swallowed and	d enters airways.				
Com	ponents:					
Parat	ffin oil:					
The substance or mixture is known to cause human aspiration toxicity hazards or has to be re- garded as if it causes a human aspiration toxicity hazard.						
SECTION 12: Ecological information 12.1 Toxicity						

Components:		
Paraffin oil:		
Toxicity to fish	:	LL50 (Scophthalmus maximus (turbot)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Acartia tonsa (Calanoid copepod)): > 100 mg/l Exposure time: 48 h



Versio 2.0	on	Revision Date: 06.07.2024		9S Number: 359152-00004	Date of last issue: 26.06.2024 Date of first issue: 29.02.2024
					Vater Accommodated Fraction on data from similar materials
	Foxicity plants	to algae/aquatic	:	Exposure time: 72 Test substance: V	na costatum (marine diatom)): > 100 mg/l 2 h Vater Accommodated Fraction on data from similar materials
				Exposure time: 72 Test substance: V	nema costatum (marine diatom)): > 1 mg/l 2 h Vater Accommodated Fraction on data from similar materials
F	Ronzvi	alcohol:			
	Foxicity		:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 460 mg/l 5 h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Foxicity plants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	
				NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD To	
a		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 51 mg/l Exposure time: 21 Species: Daphnia Method: OECD To	magna (Water flea)
	Formal	dobydou			
	Foxicity	dehyde: to fish	:	LC50 (Morone sa Exposure time: 96	xatilis (striped bass)): 6,7 mg/l 5 h
		to daphnia and other invertebrates	:	EC50 (Daphnia p Exposure time: 48	ulex (Water flea)): 5,8 mg/l 3 h
	Foxicity plants	to algae/aquatic	:	ErC50 (Desmode Exposure time: 72 Method: OECD Te	
Т	Foxicity	to microorganisms	:	EC50 (activated s Exposure time: 3 Method: OECD Te	h
a		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 1,04 mg/l Exposure time: 21 Species: Daphnia	l d magna (Water flea)



		11	359152-00004 Date of first issue: 29.02.2024				
			Method: OECD Test Guideline 211				
12.2 Pe	12.2 Persistence and degradability						
<u>Co</u>	omponents:						
	enzyl alcohol:						
Bi	odegradability	:	Result: Readily biodegradable. Biodegradation: 92 - 96 % Exposure time: 14 d				
Fo	ormaldehyde:						
Bi	odegradability	:	Result: Readily biodegradable. Biodegradation: 99 %				
			Exposure time: 28 d Method: OECD Test Guideline 301A				
12.3 Bi	oaccumulative potential						
<u>Co</u>	omponents:						
	araffin oil:						
	artition coefficient: n- tanol/water	:	log Pow: > 4 Remarks: Calculation				
Be	enzyl alcohol:						
	artition coefficient: n- tanol/water	:	log Pow: 1,05				
	ormaldehyde:						
	Partition coefficient: n- octanol/water		log Pow: 0,35 Remarks: Calculation				
	obility in soil						
	o data available						
12.5 Ro	esults of PBT and vPvB a	sse	ssment				
	oduct:		-				
As	sessment	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.				
12.6 Ot	ther adverse effects						
Pr	oduct:						
Er tia	ndocrine disrupting poten- I	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.				



Version	Revision Date:	SDS Number:	Date of last issue: 26.06.2024
2.0	06.07.2024	11359152-00004	Date of first issue: 29.02.2024

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
Contaminated packaging	: Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.2	2 UN proper shipping name		
	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.:	3 Transport hazard class(es)		
	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.4	4 Packing group		
	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	IATA (Cargo)	:	Not regulated as a dangerous good



Version 2.0	Revision Date: 06.07.2024	SDS Number: 11359152-00004	Date of last issue: 26.06.2024 Date of first issue: 29.02.2024				
ΙΑΤΑ	(Passenger)	: Not regulated as	s a dangerous good				
	14.5 Environmental hazards Not regulated as a dangerous good						
	14.6 Special precautions for user Not applicable						
14.7 Tran	sport in bulk accordi	ng to Annex II of Mar	ool and the IBC Code				
Rema	arks	: Not applicable f	or product as supplied.				
SECTION 15: Regulatory information 15.1 Safety, health and environmental regulations/legislation specific for the substance or mix- ture							

The components of this product are reported in the following inventories:					
AICS	:	not determined			
DSL	:	not determined			
IECSC		not determined			
12000	•				

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information						
Other information	:	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.				
Full text of H-Statemer	nts					
H221	:	Flammable gas.				
H301	:	Toxic if swallowed.				
H302	:	Harmful if swallowed.				
H304	:	May be fatal if swallowed and enters airways.				
H311	:	Toxic in contact with skin.				
H314	:	Causes severe skin burns and eye damage.				
H317	:	May cause an allergic skin reaction.				
H318	:	Causes serious eye damage.				
H319	:	Causes serious eye irritation.				

- H330 : Fatal if inhaled.
- H332:Harmful if inhaled.H335:May cause respiratory irritation.H341:Suspected of causing genetic defects.H350:May cause cancer.
- H413 : May cause long lasting harmful effects to aquatic life.

Full text of other abbreviations



Version 2.0	Revision Date: 06.07.2024		9S Number: 359152-00004	Date of last issue: 26.06.2024 Date of first issue: 29.02.2024			
Asi	p. Tox.		Aspiration hazard				
Ca		÷	Carcinogenicity				
Eve	e Dam.	:	Serious eye dama	ade			
	e Irrit.	:	Eye irritation	0			
	ım. Gas	:	Flammable gases				
Mu	ita.	:	Germ cell mutage				
Ski	in Corr.	:	Skin corrosion				
Ski	in Sens.	:	: Skin sensitisation				
STOT SE		:	: Specific target organ toxicity - single exposure				
2004/37/EC		:	Europe. Directive 2004/37/EC on the protection of workers				
			from the risks related to exposure to carcinogens or mutagens at work				
ZA	OEL	:	South Africa. The Regulations for Hazardous Chemical				
			Agents, Occupational Exposure Limits				
200	04/37/EC / STEL	:	Short term exposure limit				
200	2004/37/EC / TWA : Long term exposure limit						
ZA	OEL / OEL- ML	: Occupational Exposure Limit Maximum limit - 8- hour expo-					
			sure or equivalent	: (12 hour shifts).			
ZA OEL / OEL - ML STEL/C :				osure Limit Maximum limit - Short term oc- ire limits / ceiling limits			

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods: vPvB - Very Persistent and Very Bioaccumulative



Version 2.0	Revision Date: 06.07.2024	SDS Number: 11359152-00004	Date of last issue: 26.06.2024 Date of first issue: 29.02.2024
Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Ager cy, http://echa.europa.eu/			
Classification of the mixture: Classification procedure:			Classification procedure:
Asp.	Tox. 1	H304	Calculation method
Aquatic Chronic 4		H413	Calculation method

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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