

Version	Revision Date:	SDS Number:	Date of last issue: 26.06.2024
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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier		
Trade name	:	Piliguard Pinkeye-1 Formulation
Other means of identification	:	Piliguard® Pinkeye-1 Trivalent (A008192) COOPERS BOVILIS PILIGUARD PINKEYE VACCINE (60802)
1.2 Relevant identified uses of the	ne s	substance or mixture and uses advised against
Use of the Sub- stance/Mixture	:	Veterinary product
Recommended restrictions on use	:	Not applicable
1.3 Details of the supplier of the	saf	ety data sheet
Company	:	MSD Kilsheelan Clonmel Tipperary, IE
Telephone	:	353-51-601000
E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

#### 1.4 Emergency telephone number

+1-908-423-6000

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Aspiration hazard, Category 1

Long-term (chronic) aquatic hazard, Cat-<br/>egory 4ways.H413: May cause long lasting harmful effects to<br/>aquatic life.

2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

1

Hazard pictograms



Signal word

1/22

H304: May be fatal if swallowed and enters air-



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Hazar	d statements			al if swallowed and enters airways. Iong lasting harmful effects to aquatic life.
Preca	utionary statements	· Prevent		ase to the environment.
		CENTER	P310 IF R/ doctor.	SWALLOWED: Immediately call a POISON duce vomiting.
		Storage P405	e: Store locke	ed up.
Hazar	dous components whic	h must be lis	ted on the	label:

Paraffin oil

EUH208 Contains Formaldehyde. May produce an allergic reaction.

#### 2.3 Other hazards

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.

Ecological information: 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.

Toxicological information: 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.

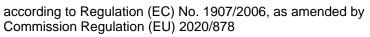
#### **SECTION 3: Composition/information on ingredients**

#### 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	Acute Tox. 4; H302 Acute Tox. 4; H332	>= 0,1 - < 1

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		603-057-00-5	Eye Irrit. 2; H319 Acute toxicity esti- mate Acute oral toxicity:	
Form	aldehyde	50-00-0 200-001-8 605-001-00-5 01-2119488953-20	1.620 mg/kgFlam. Gas 1B; H221Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Muta. 2; H341 Carc. 1B; H350 STOT SE 3; H335STOT SE 3; H350 STOT SE 3; H335Specific concentration limit Skin Corr. 1B; H314 >= 25 % Skin Irrit. 2; H315 $5 - < 25 \%$ STOT SE 3; H335 >= 5 % Skin Sens. 1A; H317 >= 0,2 %Acute toxicity estimate Acute oral toxicity: 100 mg/kg Acute inhalation toxicity (gas): 100 ppm 	< 0,1

For explanation of abbreviations see section 16.



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#### **SECTION 4: First aid measures**

4.1 Description of first aid meas	sure	S
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 a	nd (	effects, both acute and delayed
<b>4.2 Most important symptoms</b> a Risks	ind ( :	effects, both acute and delayed May be fatal if swallowed and enters airways.
Risks	:	
Risks	:	May be fatal if swallowed and enters airways.
Risks 4.3 Indication of any immediate	: me	May be fatal if swallowed and enters airways. dical attention and special treatment needed Treat symptomatically and supportively.
Risks 4.3 Indication of any immediate Treatment	: me	May be fatal if swallowed and enters airways. dical attention and special treatment needed Treat symptomatically and supportively.
Risks 4.3 Indication of any immediate Treatment SECTION 5: Firefighting mea	me : : isur	May be fatal if swallowed and enters airways. dical attention and special treatment needed Treat symptomatically and supportively.
Risks 4.3 Indication of any immediate Treatment SECTION 5: Firefighting means 5.1 Extinguishing media	me : : isur	May be fatal if swallowed and enters airways. dical attention and special treatment needed Treat symptomatically and supportively. es Water spray Alcohol-resistant foam Carbon dioxide (CO2)
Risks 4.3 Indication of any immediate Treatment SECTION 5: Firefighting mean 5.1 Extinguishing media Suitable extinguishing media Unsuitable extinguishing	: me : sur	May be fatal if swallowed and enters airways. dical attention and special treatment needed Treat symptomatically and supportively. es Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical None known.

Hazardous combustion prod- : Carbon oxides



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#### 5.3 Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

#### **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.
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#### 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.

#### **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:Use only with adequate ventilation.Advice on safe handling:Avoid inhalation of vapour or mist. Do not swallow. Avoid contact with eyes. Avoid contact with eyes. Avoid contact 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 areas and containers:Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.Advice on common storage Gases:Do not store with the following product types: Strong oxidizing agents Gases	Version 2.0	Revision Date: 06.07.2024		of last issue: 26.06.2024 of first issue: 29.02.2024			
<ul> <li>Local/Total ventilation Advice on safe handling</li> <li>Use only with adequate ventilation.</li> <li>Avoid inhalation of vapour or mist. 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.</li> <li>Hygiene measures</li> <li>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.</li> <li>7.2 Conditions for safe storage areas and containers</li> <li>Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.</li> <li>Advice on common storage</li> <li>Do not store with the following product types: Strong oxidizing agents Gases</li> </ul>	Teo	chnical measures					
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. <b>7.2 Conditions for safe storage</b> , areas and containersincluding any incompatibilitiesEquirements for storage areas and containers:Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.Advice on common storage:Do not store with the following product types: Strong oxidizing agents Gases	Local/Total ventilation Advice on safe handling		<ul> <li>Use only with adequate with adequate with a sequence of the seque</li></ul>	Use only with adequate ventilation. Avoid inhalation of vapour or mist. 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. 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-			
<ul> <li>Requirements for storage areas and containers</li> <li>Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.</li> <li>Advice on common storage</li> <li>Do not store with the following product types: Strong oxidizing agents Gases</li> </ul>			The effective operation of engineering controls, pro appropriate degowning a industrial hygiene monito	of a facility should include review of oper personal protective equipment, and decontamination procedures, oring, medical surveillance and the			
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: Strong oxidizing agents Gases	7.2 Con	ditions for safe storage,	including any incompatibili	ties			
Strong oxidizing agents Gases			tightly closed. Store in ac				
7.3 Specific end use(s)	Ad	vice on common storage	Strong oxidizing agents	owing product types:			
	7.3 Spe	cific end use(s)					

Specific use(s) : No data available

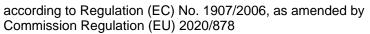
#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
Paraffin oil	8012-95-1	TWA (Vapour)	50 mg/m3	FOR-2011- 12-06-1358		
		TWA (Mist and particles)	1 mg/m3	FOR-2011- 12-06-1358		
Formaldehyde	50-00-0	TWA	0,3 ppm 0,37 mg/m3	FOR-2011- 12-06-1358		
	Further information: Substances considered to be carcinogenic, Substances considered to evoke allergies when coming into touch with the eyes or airways or evoking allergies after coming into contact with the skin					

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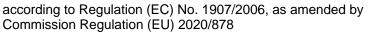
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		STEL	0,6 ppm 0,74 mg/m3	FOR-2011- 12-06-1358
	consi	idered to evoke allergies	ces considered to be carcin s when coming into touch w er coming into contact with	vith the eyes or air-
		TWA	0,3 ppm 0,37 mg/m3	2004/37/EC
Further information: Dermal sensitisation, Carcinoger		sensitisation, Carcinogens	or mutagens	
		STEL	0,6 ppm 0,74 mg/m3	2004/37/EC
Further information: Dermal sensitisation, Carcinogens or mutagens				

#### 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	3,2 mg/m3

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					effects	
	Cons	sumers	Inhalation		Long-term local ef- fects	0,1 mg/m3
	Cons	sumers	Skin conta	act	Long-term systemic effects	102 mg/kg bw/day
	Cons	sumers	Skin conta	act	Long-term local ef- fects	0,012 mg/cm2
	Cons	sumers	Ingestion		Long-term systemic effects	4,1 mg/kg bw/day

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Benzyl alcohol	Fresh water	1 mg/l
	Marine water	0,1 mg/l
	Intermittent use/release	2,3 mg/l
	Sewage treatment plant	39 mg/l
	Fresh water sediment	5,27 mg/kg
	Marine sediment	0,527 mg/kg
	Soil	0,456 mg/kg
Formaldehyde	Fresh water	0,44 mg/l
	Freshwater - intermittent	4,44 mg/l
	Marine water	0,44 mg/l
	Sewage treatment plant	0,19 mg/l
	Fresh water sediment	2,3 mg/kg dry weight (d.w.)
	Marine sediment	2,3 mg/kg dry weight (d.w.)
	Soil	0,2 mg/kg dry weight (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.

Material

#### 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		

Chemical-resistant gloves

:



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Remarks Skin and body protection		<ul> <li>Consider double gloving.</li> <li>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.</li> </ul>		
Respi	iratory protection	contaminated : If adequate loo sure assessm ommended gu	propriate degowning techniques to remove potentially inated clothing. Iate local exhaust ventilation is not available or expo- sessment demonstrates exposures outside the rec- ded guidelines, use respiratory protection. ent should conform to NS EN 14387	
Fil	ter type		ticulates and organic vapour type (A-P)	

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state	:	suspension
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	No data available
Viscosity Viscosity, kinematic	:	No data available



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		lity(ies) ter solubility	:	No data availabl	e	
		on coefficient: n- I/water	:	Not applicable		
	Vapou	r pressure	:	No data available	e	
	Relative density		: No data available			
	Density		: No data available			
	Relativ	ve vapour density	:	No data available	e	
		e characteristics ticle size	:	No data availabl	e	
9.2	Other in	nformation				
	Explos	ives	:	Not explosive		
	Oxidizi	ing properties	:	The substance of	r mixture is not classified as oxidizing.	
	Evapo	ration rate	:	No data available	e	
	Molecu	ular weight	:	No data availabl	e	

### **SECTION 10: Stability and reactivity**

10.1 Reactivity Not classifie	ed as a reactivity haz	zaro	d.
10.2 Chemical s Stable unde	stability er normal conditions.	1	
10.3 Possibility	of hazardous reac	tio	ns
Hazardous	reactions	:	Can react with strong oxidizing agents.
10.4 Conditions		:	None known.
<b>10.5 Incompatik</b> Materials to		:	Oxidizing agents

### **10.6 Hazardous decomposition products**

No hazardous decomposition products are known.



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#### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Information on likely routes of : Inhalation exposure Skin contact Ingestion Eye contact Acute toxicity Not classified based on available information. **Components:** Paraffin oil: : LD50 (Rat): > 5.000 mg/kg Acute oral toxicity Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity **Benzyl alcohol:** Acute oral toxicity LD50 (Rat): 1.620 mg/kg : LC50 (Rat): > 4,178 mg/l Acute inhalation toxicity : Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Formaldehyde: Acute oral toxicity Acute toxicity estimate: 100 mg/kg Method: Expert judgement Remarks: Based on national or regional regulation. Acute inhalation toxicity Acute toxicity estimate (Rat): 100 ppm : Exposure time: 4 h Test atmosphere: gas Method: Expert judgement LD50 (Rabbit): 270 mg/kg Acute dermal toxicity : Skin corrosion/irritation

Not classified based on available information.

#### Components:

Paraffin oil:		
Species	:	Rabbit
Result	:	No skin irritation

#### **Benzyl alcohol:**

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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



ehyde: eye damage/eye irri ified based on availa <u>ents:</u> pil:	: C : N : C : B	ased on national	eline 404 minutes to 1 hour of exposure I or regional regulation.
eye damage/eye irri ified based on availa ents:	: B itation	ased on national	
ified based on availa	: B itation	ased on national	
ified based on availa			
ents:			
		abbit lo eye irritation	
lcohol:	: C	ECD Test Guide	eline 405 reversing within 21 days
ehyde:			
ory or skin sensitis	ation		
	able inf	ormation.	
	able inf	ormation.	
ents:			
9	: S : G : C	kin contact Juinea pig JECD Test Guide	
ehyde:			
9	: S : H	kin contact lumans	ult patch test (HRIPT)
ent	: P	robability or evid	lence of high skin sensitisation rate in hu
	sitisation ified based on availa ory sensitisation	Icohol: : R : C : Ir ehyde: : Ir : B ory or skin sensitisation sitisation ified based on available inf ory sensitisation ified based on available inf ents: Icohol: : R : R : B ory or skin sensitisation : Ir : B : B : B : B : B : B : B : B	Icohol:       : Rabbit         : OECD Test Guide         : Irritation to eyes, it         ehyde:         : Irreversible effects         : Based on skin correstisation         sitisation         ified based on available information.         ory sensitisation         ified based on available information.         ents:         loohol:         e : Maximisation Test         if OECD Test Guide         if OECD Test Guide         if outes       : Negative         e : Human repeat inst         if outes       : Skin contact         if undata is positive



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		mans	
Germ	cell mutagenicity		
Not cl	assified based on avail	able information.	
Comp	oonents:		
Benzy	/I alcohol:		
Genot	toxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
Genot	toxicity in vivo	cytogenetic as Species: Mou	se pute: Intraperitoneal injection
Form	aldehyde:		
	toxicity in vitro	: Test Type: Ba Result: positiv	cterial reverse mutation assay (AMES)
		Test Type: In Result: positiv	vitro mammalian cell gene mutation test e
11		Test Type: Ch Result: positiv	romosome aberration test in vitro
Genot	toxicity in vivo	Species: Mou	oute: Inhalation
Germ sessm	cell mutagenicity- As- nent	: Positive result genicity tests.	s(s) from in vivo mammalian somatic cell muta-
Carci	nogenicity		
	assified based on avail	able information.	
Comp	oonents:		
Benzy	/l alcohol:		
Specie		: Mouse	
Applic	ation Route	: Ingestion	
Expos Metho	sure time	: 103 weeks : OECD Test G	uideline 451
Resul	••	: negative	
Forma	aldehyde:		
Specie		: Rat	<b>`</b>
	ation Route sure time	: inhalation (gas : 28 Months	S)
		13/2	22

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

rsion )	Revision Date: 06.07.2024		OS Number: 359175-00004	Date of last issue: 26.06.2024 Date of first issue: 29.02.2024
Result	t	:	positive	
Carcin ment	ogenicity - Assess-	:	Sufficient evider	nce of carcinogenicity in animal experiments
Repro	ductive toxicity			
Not cla	assified based on avai	ilable	information.	
<u>Comp</u>	onents:			
Benzy	/l alcohol:			
Effects	s on fertility	:	Species: Rat Application Rour Result: negative	
Effects	s on foetal develop-	:	Test Type: Emb	ryo-foetal development
ment			Species: Mouse Application Rou	te: Ingestion
			Result: negative	9
Forma	aldehyde:			
<b>Effect</b>	s on foetal develop-	:	Test Type: Emb	ryo-foetal development
		•		,
ment			Species: Rat	te: inhalation (gas)
ment			Species: Rat Application Rou	te: inhalation (gas)
ment STOT	- single exposure		Species: Rat Application Rou Result: negative	te: inhalation (gas)
ment STOT Not cla	- single exposure assified based on avai		Species: Rat Application Rou Result: negative	te: inhalation (gas)
ment STOT Not cla <u>Comp</u>	- single exposure assified based on avai onents:		Species: Rat Application Rou Result: negative	te: inhalation (gas)
ment STOT Not cla <u>Comp</u> Forma	- single exposure assified based on avai ponents: aldehyde:		Species: Rat Application Rou Result: negative	te: inhalation (gas)
ment STOT Not cla <u>Comp</u>	- single exposure assified based on avai ponents: aldehyde:		Species: Rat Application Rou Result: negative	te: inhalation (gas)
ment STOT Not cla <u>Comp</u> Forma	- single exposure assified based on avai ponents: aldehyde:	ilable :	Species: Rat Application Rou Result: negative	te: inhalation (gas)
ment STOT Not cla <u>Comp</u> Forma []Asses STOT	- single exposure assified based on avai conents: aldehyde: sment	ilable :	Species: Rat Application Rour Result: negative information. May cause resp	te: inhalation (gas)
ment STOT Not cla Comp Forma []Asses STOT Not cla	<ul> <li>single exposure assified based on avaination</li> <li>onents:</li> <li>aldehyde:</li> <li>sment</li> <li>repeated exposure</li> </ul>	ilable :	Species: Rat Application Rour Result: negative information. May cause resp	te: inhalation (gas)
ment STOT Not cla Comp Forma Masses STOT Not cla Repea	<ul> <li>single exposure assified based on avaination</li> <li>andehyde:</li> <li>sment</li> <li>repeated exposure</li> <li>assified based on avaination</li> </ul>	ilable :	Species: Rat Application Rour Result: negative information. May cause resp	te: inhalation (gas)
STOT Not cla Comp Forma MASSES STOT Not cla Repea Comp	<ul> <li>single exposure assified based on avaination onents:</li> <li>aldehyde: sment</li> <li>repeated exposure assified based on avainated dose toxicity</li> <li>onents:</li> </ul>	ilable :	Species: Rat Application Rour Result: negative information. May cause resp	te: inhalation (gas)
ment STOT Not cla Comp Forma Masses STOT Not cla Repea	- single exposure assified based on avai onents: aldehyde: sment - repeated exposure assified based on avai ated dose toxicity onents: in oil:	ilable :	Species: Rat Application Rour Result: negative information. May cause resp	te: inhalation (gas)
ment STOT Not cla Comp Forma MAsses STOT Not cla Repea Comp Paraff Specie LOAE	<ul> <li>single exposure assified based on avaination on the second second</li></ul>	ilable :	Species: Rat Application Rour Result: negative information. May cause resp information. Rat, female 161 mg/kg	te: inhalation (gas)
ment STOT Not cla Comp Forma Masses STOT Not cla Repea Comp Paraff Specie LOAE Applic	<ul> <li>single exposure assified based on avaination on the second second</li></ul>	ilable :	Species: Rat Application Rour Result: negative information. May cause resp information. Rat, female	te: inhalation (gas)
ment STOT Not cla Comp Forma MAsses STOT Not cla Repea Comp Paraff Specia LOAE Applic Expos	<ul> <li>single exposure assified based on avaination onents:</li> <li>aldehyde:</li> <li>aldehyde:</li> <li>sment</li> <li>repeated exposure</li> <li>assified based on avainated dose toxicity</li> <li>conents:</li> <li>in oil:</li> <li>as</li> <li>L</li> <li>ation Route</li> <li>ure time</li> </ul>	ilable :	Species: Rat Application Rour Result: negative information. May cause resp information. Rat, female 161 mg/kg Ingestion	te: inhalation (gas)
ment STOT Not cla Comp Forma MAsses STOT Not cla Repea Comp Paraff Specia LOAE Applic Expos	<ul> <li>single exposure assified based on avaitation onents:</li> <li>aldehyde: sment</li> <li>repeated exposure assified based on avaitated dose toxicity</li> <li>onents:</li> <li>in oil: es L ation Route oure time</li> <li>alcohol:</li> </ul>	ilable :	Species: Rat Application Rour Result: negative information. May cause resp information. Rat, female 161 mg/kg Ingestion	te: inhalation (gas)



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	ation Route ure time d	: inhalation (dust/r : 28 Days : OECD Test Guid	

#### Aspiration toxicity

May be fatal if swallowed and enters airways.

#### **Components:**

#### Paraffin oil:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

#### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

#### Product:

Assessment

: 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.

#### **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 Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	EL50 (Skeletonema costatum (marine diatom)): > 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials
		NOELR (Skeletonema costatum (marine diatom)): > 1 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials



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	Benzvl	alcohol:			
	Toxicity		:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 460 mg/l 6 h
		to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	
	Toxicity plants	✓ to algae/aquatic	:	EC50 (Pseudokin mg/l Exposure time: 72 Method: OECD T	
				NOEC (Pseudoki mg/l Exposure time: 72 Method: OECD T	
		/ to daphnia and other invertebrates (Chron- ity)	:	NOEC: 51 mg/l Exposure time: 2 Species: Daphnia Method: OECD T	a magna (Water flea)
	Forma	ldehyde:			
	Toxicity	to fish	:	LC50 (Morone sa Exposure time: 90	xatilis (striped bass)): 6,7 mg/l 6 h
		to daphnia and other invertebrates	:	EC50 (Daphnia p Exposure time: 4	ulex (Water flea)): 5,8 mg/l 8 h
	Toxicity plants	✓ to algae/aquatic	:	ErC50 (Desmode Exposure time: 7 Method: OECD T	
	Toxicity	<i>i</i> to microorganisms	:	EC50 (activated s Exposure time: 3 Method: OECD T	
		/ to daphnia and other invertebrates (Chron- ity)	:	NOEC: 1,04 mg/l Exposure time: 2 Species: Daphnia Method: OECD T	a magna (Water flea)
12.2	2 Persis	tence and degradabil	ity		
	Compo	onents:			
	-	alcohol:		Result: Readily b	iodegradable

Biodegradability	:	Result: Readily biodegradable.
<b>c</b>		Biodegradation: 92 - 96 %
		Exposure time: 14 d



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	<b>aldehyde:</b> gradability	Biodegrad Exposure	eadily biodegradable. lation: 99 % time: 28 d DECD Test Guideline 301A
12.3 Bioac	cumulative potentia	I	
Comp	onents:		
	f <b>in oil:</b> on coefficient: n- ol/water	: log Pow: : Remarks:	- 4 Calculation
Partitio	<b>/I alcohol:</b> on coefficient: n- ol/water	: log Pow:	,05
Partitio	aldehyde: on coefficient: n- bl/water	: log Pow: ( Remarks:	),35 Calculation
<b>12.4 Mobil</b> No da	<b>ity in soil</b> ta available		
12.5 Resul	Its of PBT and vPvB	assessment	
<u>Produ</u> Asses	<u>ict:</u> sment	to be eithe	cance/mixture contains no components considered er persistent, bioaccumulative and toxic (PBT), or stent and very bioaccumulative (vPvB) at levels of gher.
12.6 Endo	crine disrupting pro	perties	
<u>Produ</u>	<u>ict:</u>		
Asses	sment	ered to ha REACH A (EU) 2017	ance/mixture does not contain components consid- ve endocrine disrupting properties according to rticle 57(f) or Commission Delegated regulation 7/2100 or Commission Regulation (EU) 2018/605 at .1% or higher.
	adverse effects ta available		

#### 13.1 Waste treatment methods

Product

: Dispose of in accordance with local regulations.



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Conta	aminated packaging	are not product Waste codes sh discussion with Do not dispose : Empty containe dling site for rec	e European Waste Catalogue, Waste Codes specific, but application specific. hould be assigned by the user, preferably in the waste disposal authorities. of waste into sewer. rs should be taken to an approved waste han- cycling or disposal. specified: Dispose of as unused product.

#### **SECTION 14: Transport information**

#### 14.1 UN number or ID 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 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 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
IATA (Passenger)	:	Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good



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#### 14.6 Special precautions for user

Not applicable

#### 14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

#### **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 75, 3
		If you intend to use this product as tattoo ink, please contact your ven- dor.
		Formaldehyde (Number on list 77, 72, 28)
		Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that de- plete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
Seveso III: Directive 2012/18/EU of the European Parlian major-accident hazards involving dangerous substances.		t and of the Council on the control of

Not applicable

#### The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined



Commission Regulation (EU) 2020/878

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#### 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-Statements

H221 H301 H302 H304 H311 H314 H317 H318 H319 H330 H332 H335 H341 H350		Flammable gas. Toxic if swallowed. Harmful if swallowed. May be fatal if swallowed and enters airways. Toxic in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye damage. Causes serious eye irritation. Fatal if inhaled. Harmful if inhaled. May cause respiratory irritation. Suspected of causing genetic defects. May cause cancer.
H413	:	May cause long lasting harmful effects to aquatic life.
Full text of other abbreviat	ions	
Acute Tox. Aquatic Chronic Asp. Tox. Carc. Eye Dam. Eye Irrit. Flam. Gas Muta. Skin Corr. Skin Sens. STOT SE 2004/37/EC		Acute toxicity Long-term (chronic) aquatic hazard Aspiration hazard Carcinogenicity Serious eye damage Eye irritation Flammable gases Germ cell mutagenicity Skin corrosion Skin sensitisation Specific target organ toxicity - single exposure Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
FOR-2011-12-06-1358 2004/37/EC / STEL 2004/37/EC / TWA FOR-2011-12-06-1358 / TWA FOR-2011-12-06-1358 /	:	Norway. Occupational Exposure limits Short term exposure limit Long term exposure limit Long term exposure limit
FOR-2011-12-06-1358 / STEL	:	Short term exposure limit

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; Regula-



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tion (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

#### Further information

Sources of key data use compile the Safety Data Sheet	eChei	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/	
Classification of the m	ixture:	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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NO / EN