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## **SECTION 1:** Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier		
Trade name	:	Abamectin / Levamisole Hydrochloride / Cobalt EDTA / Sodi- um Selenate Formulation
Other means of identification	:	Converge (A010119)
1.2 Relevant identified uses of the	he 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)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity, Category 2	H341: Suspected of causing genetic defects.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Reproductive toxicity, Category 2	H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through pro- longed or repeated exposure.
Short-term (acute) aquatic hazard, Cate- gory 1	H400: Very toxic to aquatic life.



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Long- egory	term (chronic) aquatic 1		410: Very toxic to aquatic life with long lasting fects.
2.2 Label	elements		
	l <b>ling (REGULATION (E</b> rd pictograms	EC) No 1272/2008)	
Signa	l word	: Danger	• •
Hazar	rd statements	H334 May c difficulties if in H341 Suspe H351 Suspe H361fd Suspe ing the unborn H373 May c repeated expo	ected of causing genetic defects. ected of causing cancer. ected of damaging fertility. Suspected of damag- n child. ause damage to organs through prolonged or
Preca	utionary statements	P273 Avoid P280 Wear tion/ face prot <b>Response:</b> P304 + P340 keep comforta P342 + P311 POISON CEN	IF INHALED: Remove person to fresh air and able for breathing. If experiencing respiratory symptoms: Call a
Hazar	rdous components whic		

levamisole hydrochloride

Cobalt disodium ethylenediaminetetraacetate

Sodium selenate

abamectin (combination of avermectin B1a and avermectin B1b) (ISO)

## 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.



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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)
levamisole hydrochloride	16595-80-5 240-654-6	Acute Tox. 3; H301 Repr. 2; H361d STOT RE 2; H373 (Blood, Testis) Aquatic Chronic 3; H412	>= 3 - < 10
Cobalt disodium ethylenediaminetet- raacetate	15137-09-4 239-198-0	Resp. Sens. 1B; H334 Muta. 2; H341 Carc. 2; H351 Repr. 2; H361f STOT RE 1; H372 (Respiratory Tract, Thyroid, Heart, Blood) Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity): 1	>= 3 - < 10
Benzyl alcohol	100-51-6 202-859-9 603-057-00-5	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319 Acute toxicity esti- mate Acute oral toxicity: 1.620 mg/kg	>= 1 - < 10
Citric acid	77-92-9 201-069-1 607-750-00-3	Eye Irrit. 2; H319 STOT SE 3; H335	>= 1 - < 10
Sodium selenate	13410-01-0 236-501-8 034-002-00-8	Acute Tox. 2; H300 Acute Tox. 2; H330 Skin Irrit. 2; H315	>= 0,1 - < 0,25

## **SAFETY DATA SHEET** according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## Abamectin / Levamisole Hydrochloride / Cobalt EDTA / Sodium Selenate Formulation

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	ectin (combination of a a and avermectin B1b)		71751-41-2 606-143-00-0	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$

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 advice immediately.



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			When symptoms advice.	persist or in all cases of doubt seek medical
Pr	otection of first-aiders	:	and use the reco	ers should pay attention to self-protection, mmended personal protective equipment al for exposure exists (see section 8).
lf i	nhaled	:		jive artificial respiration. icult, give oxygen.
In	case of skin contact	:	of water. Remove contami Get medical atter Wash clothing be	
In	case of eye contact	:		vater as a precaution. htion if irritation develops and persists.
lf s	swallowed	:	Get medical atter Rinse mouth thor	NOT induce vomiting. ntion. oughly with water. ing by mouth to an unconscious person.
	st important symptoms a	nd e		-
Ri	sks	:	ties if inhaled. Suspected of cau Suspected of cau Suspected of dar unborn child.	y or asthma symptoms or breathing difficul- using genetic defects.
			other respiratory	ure may aggravate preexisting asthma and disorders (e.g. emphysema, bronchitis, reac- unction syndrome).
	ication of any immediate	me		d special treatment needed ically and supportively.
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## **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.

## 5.2 Special hazards arising from the substance or mixture

J.Z	opecial hazarda analig nom	the	
	Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
	Hazardous combustion prod- ucts	:	Carbon oxides Oxides of phosphorus Cobalt compounds Nitrogen oxides (NOx) Metal oxides
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

	5
Technical measures	<ul> <li>See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.</li> </ul>
Local/Total ventilation	: Use only with adequate ventilation.
Advice on safe handling	: Do not breathe mist or vapours.
, aviou on ouro nanaling	Do not swallow.
	Avoid contact with eyes.
	Avoid prolonged or repeated contact with skin.
	Wash skin thoroughly after handling.
	Handle in accordance with good industrial hygiene and safety
	practice, based on the results of the workplace exposure as- sessment
	Keep container tightly closed.
	Already sensitised individuals, and those susceptible
	to asthma, allergies, chronic or recurrent respiratory disease,
	should consult their physician regarding working with respira-
	tory irritants or sensitisers.
	Do not eat, drink or smoke when using this product.
	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.



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7.2 Condit	tions for safe storage,	inc	luding any incom	patibilities
	rements for storage and containers	:		labelled containers. Store locked up. Keep ore in accordance with the particular national
Advice on common storage		:	<ul> <li>Do not store with the following product types: Strong oxidizing agents</li> <li>Self-reactive substances and mixtures</li> <li>Organic peroxides</li> <li>Explosives</li> <li>Gases</li> </ul>	
-	<b>ic end use(s)</b> fic 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	
levamisole hydro- chloride	16595-80-5	TWA	20 µg/m3 (OEB 3)	Internal	
	Further inform	nation: Skin			
		Wipe limit	200 µg/100 cm <sup>2</sup>	Internal	
Sodium selenate	13410-01-0	TWA	0,05 mg/m3	FOR-2011-	
			(selenium)	12-06-1358	
	Further information: Substances considered to evoke allergies when coming				
	into touch with the eyes or airways or evoking allergies after coming into co				
	tact with the s	with the skin			
		TWA	20 µg/m3 (OEB 3)	Internal	
		Wipe limit	200 µg/100 cm <sup>2</sup>	Internal	
abamectin (combi- nation of avermec- tin B1a and aver- mectin B1b) (ISO)	71751-41-2	TWA	15 μg/m3 (OEB 3)	Internal	
		Wipe limit	150 μg/100 cm²	Internal	

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
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	8 mg/kg



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					effects	bw/day	
		Workers		Skin contact	Acute systemic ef- fects	40 mg/k bw/day	-
		Consume	rs	Inhalation	Long-term systemic effects	c 5,4 mg/r	m3
		Consume	ers	Inhalation	Acute systemic ef- fects	27 mg/n	n3
		Consume	ers	Skin contact	Long-term systemic effects	c 4 mg/kg bw/day	
		Consume	rs	Skin contact	Acute systemic ef- fects	20 mg/k bw/day	g
		Consume	rs	Ingestion	Long-term systemic effects		
		Consume	ers	Ingestion	Acute systemic ef- fects	20 mg/k bw/day	g
Cobalt disodium eth- ylenediaminetetraace- tate		Workers		Inhalation	Long-term systemic effects		ıg/m
		Workers		Skin contact	Long-term systemic effects	c 1 mg/kg bw/day	
		Consumers		Inhalation	Long-term systemic effects	c 0,087 m	ıg/m
		Consume	ers	Skin contact	Long-term systemic effects	c 0,5 mg/l bw/day	kg
		Consume	ers	Ingestion	Long-term systemic effects		ıg∕k
Sodiu	im selenate	Workers		Inhalation	Long-term systemic effects	c 0,12 mg	j/m3
		Workers		Skin contact	Long-term systemic effects	c 16,73 m bw/day	ıg∕k
		Consume	ers	Inhalation	Long-term systemic effects	c 0,036 m	ıg/m
		Consume	ers	Skin contact	Long-term systemic effects	c 10,28 m bw/day	ıg/k
		Consume	rs	Ingestion	Long-term systemic effects		
Predi	cted No Effect C	oncentratio	on (PN	NEC) according	to Regulation (EC) No	<b>b. 1907/2006</b> :	
	tance name			ronmental Compa	rtment	Value	
Benzy	yl alcohol			h water		1 mg/l	
			ne water		0,1 mg/l		
		Intermittent use/release         Sewage treatment plant         Fresh water sediment         Marine sediment         Soil			2,3 mg/l		
					39 mg/l 5,27 mg/kg	1	
					0,527 mg/kg		
					0,327 mg/k		
with o	noic acid, mixed d octanoic acid and p		Soil			0,2638 mg/	
glycol Citric			Fres	h water		0,44 mg/l	
				ne water		0,044 mg/l	



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μ		Sewage treatm		1000 mg/l
		Fresh water se	34,6 mg/kg dry weight (d.w.)	
		Marine sedime	ent	3,46 mg/kg dry weight (d.w.)
		Soil		33,1 mg/kg dry weight (d.w.)
	It disodium ethylenedia- etraacetate	Fresh water		0,1 mg/l
		Marine water	Marine water	
		Fresh water se	ediment	0,758 mg/kg dry weight (d.w.)
		Marine sedime	ent	0,0758 mg/kg dry weight (d.w.)
		Soil		0,5636 mg/kg dry weight (d.w.)
Sodiu	ım selenate	Fresh water		6,38 µg/l
		Freshwater - ir	ntermittent	6,38 µg/l
		Marine water		4,09 µg/l
		Sewage treatment	nent plant	10 mg/l 19,7 mg/kg dry
		Fresh water se	Fresh water sediment	
		Marine sedime	ent	weight (d.w.) 12,6 mg/kg dry weight (d.w.)
		Soil		0,47 mg/kg dry weight (d.w.)
		Oral (Seconda	ry Poisoning)	2,39 mg/kg food

# 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		<ul> <li>Wear safety glasses with side shields or goggles.</li> <li>If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.</li> <li>Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.</li> </ul>
Hand protection		
Material	:	Chemical-resistant gloves
Remarks	:	Consider double gloving.



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Skin and body protection		Additional body being performed suits) to avoid et	<ul> <li>Work uniform or laboratory coat.</li> <li>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> <li>Use appropriate degowning techniques to remove potentially</li> </ul>				
Respi	iratory protection	contaminated cle If adequate loca sure assessmen ommended guid	othing. I exhaust ventilation is not available or expo- it demonstrates exposures outside the rec- elines, use respiratory protection.				
Fil	ter type		ld conform to NS EN 14387 culates 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 available	9
		on coefficient: n- I/water	:	Not applicable	
	Vapou	r pressure	:	No data available	9
	Relativ	e density	:	No data available	9
	Densit	у	:	No data available	9
	Relativ	e vapour density	:	No data available	9
	Particle characteristics Particle size		:	Not applicable	
9.2	Other in	nformation			
	Explos	ives	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Evapo	ration rate	:	No data available	9
	Molecu	ular weight	:	No data available	9

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

<b>10.1 Reactivity</b> Not classified as a reactivity haz	zard.
<b>10.2 Chemical stability</b> Stable under normal conditions.	i.
10.3 Possibility of hazardous react	ctions
Hazardous reactions	: Can react with strong oxidizing
10.4 Conditions to avoid	
Conditions to avoid	: None known.
10.5 Incompatible materials	
Materials to avoid	: Oxidizing agents
<b>10.6 Hazardous decomposition pro</b> No hazardous decomposition pro	

agents.



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## **SECTION 11: Toxicological information**

<b>11.1 Information on hazard class</b> Information on likely routes of exposure		<b>as defined in Regulation (EC) No 1272/2008</b> Inhalation Skin contact Ingestion Eye contact
Acute toxicity Harmful if swallowed.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 939,39 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method
Components:		
levamisole hydrochloride:		
Acute oral toxicity	:	LD50 (Rat): 180 mg/kg
		LD50 (Mouse): 223 mg/kg
		LD50 (Rabbit): 458 mg/kg
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available
Cobalt disodium ethylenedia	ami	netetraacetate:
Acute oral toxicity	:	LD50 (Rat): > 2.000 mg/kg Remarks: Based on data from similar materials
Benzyl alcohol:		
Acute oral toxicity	:	LD50 (Rat): 1.620 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 4,178 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403



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Citric	acid:			
Acute	e oral toxicity	: LD	50 (Mouse): 5	5.400 mg/kg
Acute	e dermal toxicity	Me As		000 mg/kg Test Guideline 402 e substance or mixture has no acute derma
Sodiu	um selenate:			
Acute	e oral toxicity		950 (Rat): > 5 emarks: Based	- 50 mg/kg I on data from similar materials
Acute	inhalation toxicity	Ex Te	posure time: 4	
II abam	ectin (combination o	of averme	ctin B1a and	avermectin B1b) (ISO):
Acute	e oral toxicity	: LD	950 (Rat): 24 r	ng/kg
		LD	50 (Mouse): 1	I0 mg/kg
			Lo (Monkey): mptoms: Dilat	24 mg/kg tation of the pupil
Acute	inhalation toxicity	Ex	50 (Rat): 0,02 posure time: 4 st atmosphere	4 h
Acute	e dermal toxicity	: LD	950 (Rat): 330	mg/kg
		LD	950 (Rabbit): 2	2.000 mg/kg
Skin	corrosion/irritation			
Not c	lassified based on ava	ilable info	rmation.	
<u>Com</u>	ponents:			
	nisole hydrochloride	:		
Rema	arke	· No	data availabl	0

Remarks : No data available

## Cobalt disodium ethylenediaminetetraacetate:

Species Method Result Remarks	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation
Remarks	: Based on data from similar materials

## Benzyl alcohol:



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Speci	es	: Rabbit	
Metho		: OECD Test G	uideline 404
Resul	t	: No skin irritati	on
Citric	acid:		
Speci	es	: Rabbit	
Metho		: OECD Test G	uideline 404
Resul	t	: No skin irritati	on
Sodiu	ım selenate:		
Speci	es	: reconstructed	human epidermis (RhE)
Metho	od	: OECD Test G	
Speci			human epidermis (RhE)
Metho		: OECD Test G	uideline 439
Resul	t	: Skin irritation	
Specie Resul	t us eye damage/eye	: No skin irritati	on
Resul Serio Not cl <u>Comp</u>	us eye damage/eye assified based on ava ponents:	<b>irritation</b> ailable information.	on
Result Serio Not cl <u>Comp</u> Ievam	us eye damage/eye assified based on ava <u>conents:</u> hisole hydrochloride	irritation ailable information.	
Resul Serio Not cl <u>Comp</u>	us eye damage/eye assified based on ava <u>conents:</u> hisole hydrochloride	<b>irritation</b> ailable information.	
Result Serio Not cl <u>Comp</u> levarr Rema	us eye damage/eye assified based on ava <u>ponents:</u> hisole hydrochloride urks It disodium ethylene	irritation ailable information. : : No data availa ediaminetetraacetate	able
Resul Serio Not cl <u>Comp</u> Ievam Rema	us eye damage/eye assified based on ava <u>ponents:</u> hisole hydrochloride urks It disodium ethylene	irritation ailable information. : No data availa ediaminetetraacetate : Rabbit	able 9:
Resul Serio Not cl <u>Comp</u> Ievam Rema Cobal Specia Resul	us eye damage/eye assified based on ava <u>ponents:</u> hisole hydrochloride Irks It disodium ethylene es t	irritation ailable information. : No data availa ediaminetetraacetate : Rabbit : No eye irritatio	able e: on
Result Serio Not cl <u>Comp</u> levarr Rema	us eye damage/eye assified based on ava <u>ponents:</u> hisole hydrochloride Irks It disodium ethylene es t	irritation ailable information. : No data availa ediaminetetraacetate : Rabbit : No eye irritatio	able 9:
Resul Serio Not cl Comp Ievan Rema Speci Resul Rema	us eye damage/eye assified based on ava <u>ponents:</u> hisole hydrochloride Irks It disodium ethylene es t	irritation ailable information. : No data availa ediaminetetraacetate : Rabbit : No eye irritatio	able e: on
Resul Serio Not cl <u>Comp</u> Ievarr Rema Specie Resul Rema Benzy	us eye damage/eye assified based on ava <u>ponents:</u> hisole hydrochloride urks It disodium ethylend es t urks yl alcohol: es	irritation ailable information. : : No data availa ediaminetetraacetate : Rabbit : No eye irritatio : Based on data	able e: on a from similar materials
Resul Serio Not cl Comp Ievarr Rema Speci Resul Rema Benzy Speci Metho	us eye damage/eye assified based on ava <u>ponents:</u> hisole hydrochloride urks It disodium ethylend es t urks yl alcohol: es	irritation ailable information. : : No data availa ediaminetetraacetate : Rabbit : No eye irritatio : Based on data : Rabbit : OECD Test G	able e: on a from similar materials uideline 405
Resul Serio Not cl <u>Comp</u> Ievarr Rema Specie Resul Rema Benzy	us eye damage/eye assified based on ava <u>ponents:</u> hisole hydrochloride urks It disodium ethylend es t urks yl alcohol: es	irritation ailable information. : : No data availa ediaminetetraacetate : Rabbit : No eye irritatio : Based on data : Rabbit : OECD Test G	able e: on a from similar materials
Resul Serio Not cl Comp Ievarr Rema Speci Resul Rema Benzy Speci Metho	us eye damage/eye assified based on ava <u>ponents:</u> hisole hydrochloride arks It disodium ethylene es t urks yl alcohol: es od t	irritation ailable information. : : No data availa ediaminetetraacetate : Rabbit : No eye irritatio : Based on data : Rabbit : OECD Test G	able e: on a from similar materials uideline 405
Resul Serio Not cl <u>Comp</u> Ievarr Rema Coba Resul Resul Resul Rema Benzy Speci Metho Resul	us eye damage/eye assified based on ava <u>ponents:</u> hisole hydrochloride urks It disodium ethylene es t urks yl alcohol: es pd t acid:	irritation ailable information. : : No data availa ediaminetetraacetate : Rabbit : No eye irritatio : Based on data : Rabbit : OECD Test G	able e: on a from similar materials uideline 405
Resul Serio Not cl Comp levarr Rema Specia Resul Rema Benzy Specia Resul Rema Coba	us eye damage/eye assified based on ava <u>ponents:</u> hisole hydrochloride urks It disodium ethylend es t urks yl alcohol: es od t acid: es	irritation ailable information. : : No data availa ediaminetetraacetate : Rabbit : No eye irritatio : Based on data : Rabbit : OECD Test G : Irritation to eye : Rabbit : OECD Test G	able e: on a from similar materials uideline 405 es, reversing within 21 days
Resul Serio Not cl Comp levarr Rema Coba Resul Rema Benzy Speci Resul Rema Coba Resul Rema	us eye damage/eye assified based on ava <u>ponents:</u> hisole hydrochloride urks It disodium ethylend es t urks yl alcohol: es od t acid: es	irritation ailable information. : : No data availa ediaminetetraacetate : Rabbit : No eye irritatio : Based on data : Rabbit : OECD Test G : Irritation to eye : Rabbit : OECD Test G	able <b>2:</b> On a from similar materials uideline 405 es, reversing within 21 days



ersion )	Revision Date: 06.04.2024	SDS Number: 10814135-00006	Date of last issue: 04.12.2023 Date of first issue: 12.07.2022
Speci Metho		: Bovine cornea : OECD Test G	-
Resul	t	: No eye irritation	on
abam	ectin (combination	of avermectin B1a a	nd avermectin B1b) (ISO):
Speci Resul		: Rabbit : Mild eye irrita	tion
Respi	iratory or skin sens	itisation	
_	<b>sensitisation</b> assified based on av	vailable information	
	iratory sensitisation		
-	-		hing difficulties if inhaled.
<u>Comp</u>	oonents:		
	nisole hydrochlorid		
levan Rema	•	<b>e:</b> : No data availa	able
Rema	rks		
Rema Coba	irks It disodium ethylen sure routes	: No data availa	2:
Rema Coba Expos Specie	irks It disodium ethylen sure routes es	: No data availa ediaminetetraacetate : inhalation (du : Humans	2:
Rema Coba Expos Specia Resul	irks It disodium ethylen sure routes es t	: No data availa ediaminetetraacetate : inhalation (du : Humans : positive	e: st/mist/fume)
Rema Coba Expos Specie	irks It disodium ethylen sure routes es t	: No data availa ediaminetetraacetate : inhalation (du : Humans : positive	2:
Rema Coba Expos Specia Resul	irks <b>It disodium ethylen</b> sure routes es t irks	: No data availa ediaminetetraacetate : inhalation (du : Humans : positive : Based on data	e: st/mist/fume) a from similar materials evidence of low to moderate respiratory sensiti
Coba Expos Specia Resul Rema	irks <b>It disodium ethylen</b> sure routes es t irks	: No data availa ediaminetetraacetate : inhalation (du : Humans : positive : Based on data : Probability or	e: st/mist/fume) a from similar materials evidence of low to moderate respiratory sensiti
Cobal Expos Specia Resul Rema Asses Benzy	It disodium ethylen sure routes es t irks ssment	: No data availa ediaminetetraacetate : inhalation (du : Humans : positive : Based on data : Probability or	e: st/mist/fume) a from similar materials evidence of low to moderate respiratory sensiti humans
Cobal Expos Specia Resul Rema Asses Benzy Test T Expos	It disodium ethylen sure routes es t irks ssment yl alcohol: Type sure routes	<ul> <li>No data availa</li> <li>ediaminetetraacetate</li> <li>inhalation (du</li> <li>Humans</li> <li>positive</li> <li>Based on data</li> <li>Probability or sation rate in</li> <li>Maximisation</li> <li>Skin contact</li> </ul>	e: st/mist/fume) a from similar materials evidence of low to moderate respiratory sensiti humans
Cobal Expos Specia Resul Rema Asses Benzy Test T Expos Specia	It disodium ethylen sure routes es t irks ssment yl alcohol: Type sure routes es	<ul> <li>No data availa</li> <li>ediaminetetraacetate</li> <li>inhalation (du</li> <li>Humans</li> <li>positive</li> <li>Based on data</li> <li>Probability or sation rate in</li> <li>Skin contact</li> <li>Guinea pig</li> </ul>	e: st/mist/fume) a from similar materials evidence of low to moderate respiratory sensiti humans Test
Cobal Expos Specia Resul Rema Asses Benzy Test T Expos Specia Metho	It disodium ethylen sure routes es t urks ssment yl alcohol: Type sure routes es	<ul> <li>No data availa</li> <li>ediaminetetraacetate</li> <li>inhalation (du</li> <li>Humans</li> <li>positive</li> <li>Based on data</li> <li>Probability or sation rate in</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test G</li> </ul>	e: st/mist/fume) a from similar materials evidence of low to moderate respiratory sensiti humans Test
Cobal Expos Specia Resul Rema Asses Benzy Test T Expos Specia	It disodium ethylen sure routes es t urks ssment yl alcohol: Type sure routes es	<ul> <li>No data availa</li> <li>ediaminetetraacetate</li> <li>inhalation (du</li> <li>Humans</li> <li>positive</li> <li>Based on data</li> <li>Probability or sation rate in</li> <li>Skin contact</li> <li>Guinea pig</li> </ul>	e: st/mist/fume) a from similar materials evidence of low to moderate respiratory sensiti humans Test
Cobal Expos Specia Resul Rema Asses Benzy Test T Expos Specia Metho Resul abam	It disodium ethylen sure routes es t urks ssment yl alcohol: Type sure routes es od t ectin (combination	<ul> <li>No data availa</li> <li>ediaminetetraacetate</li> <li>inhalation (du</li> <li>Humans</li> <li>positive</li> <li>Based on data</li> <li>Probability or sation rate in</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test G</li> <li>negative</li> </ul>	e: st/mist/fume) a from similar materials evidence of low to moderate respiratory sensiti humans Test suideline 406 <b>nd avermectin B1b) (ISO):</b>
Cobal Expos Specia Resul Rema Asses Benzy Test T Expos Specia Metho Resul abam	It disodium ethylen sure routes es t urks ssment yl alcohol: Type sure routes es od t ectin (combination	<ul> <li>No data availa</li> <li>ediaminetetraacetate</li> <li>inhalation (du</li> <li>Humans</li> <li>positive</li> <li>Based on data</li> <li>Probability or sation rate in</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test G</li> <li>negative</li> <li>of avermectin B1a a</li> <li>Maximisation</li> </ul>	e: st/mist/fume) a from similar materials evidence of low to moderate respiratory sensiti humans Test suideline 406 <b>nd avermectin B1b) (ISO):</b>
Cobal Expos Specia Resul Rema Asses Benzy Test T Expos Specia Metho Resul abam	It disodium ethylen sure routes es t irks ssment yl alcohol: Type sure routes es od t ectin (combination Type sure routes	<ul> <li>No data availa</li> <li>ediaminetetraacetate</li> <li>inhalation (du</li> <li>Humans</li> <li>positive</li> <li>Based on data</li> <li>Probability or sation rate in</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test G</li> <li>negative</li> </ul>	e: st/mist/fume) a from similar materials evidence of low to moderate respiratory sensit humans Test suideline 406 <b>nd avermectin B1b) (ISO):</b> Test

## Germ cell mutagenicity

Suspected of causing genetic defects.



Components:         Ievamisole hydrochloride:         Genotoxicity in vitro       :       Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Cobalt disodium ethylenediaminetetraacetate:         Genotoxicity in vitro       :       Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative         Genotoxicity in vitro       :       Test Type: Dest Guideline 471 Result: negative         Remarks: Based on data from similar materials         Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: positive         Remarks: Based on data from similar materials         Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: positive         Remarks: Based on data from similar materials         Test Type: Micronucleus test Species: Mouse Application Route: Intraperitoneal injection Result: positive         Remarks: Based on data from similar materials         Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: positive         Germ cell mutagenicity- As- sessment         Colspan= 2         Positive result(s) from in vivo mammalian somatic cell muta genicity tests. Remarks: Based on data from similar materials	/ersion 3.0	Revision Date: 06.04.2024		9S Number: 814135-00006	Date of last issue: 04.12.2023 Date of first issue: 12.07.2022
Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Cobalt disodium ethylenediaminetetraacetate:       : Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative         Genotoxicity in vitro       : Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: positive         Remarks: Based on data from similar materials       Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: positive         Genotoxicity in vivo       : Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: positive         Genotoxicity in vivo       : Test Type: Micronucleus test Species: Mouse Application Route: Intraperitoneal injection Result: positive Remarks: Based on data from similar materials         Genotoxicity in vivo       : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Ingestion Result: positive Remarks: Based on data from similar materials         Germ cell mutagenicity-As- sessment       : Positive result(s) from in vivo mammalian somatic cell muta genicity tests. Remarks: Based on data from similar materials         Germ cell mutagenicity-As- sessment       : Positive result(s) from in vivo mammalian somatic cell muta genicity tests. Remarks: Based on data from similar materials	Com	ponents:			
Result: negative         Test Type: Chromosome aberration test in vitro         Result: negative         Cobalt disodium ethylenediaminetetraacetate:         Genotoxicity in vitro       Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative         Result: apative       Remarks: Based on data from similar materials         Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: positive         Remarks: Based on data from similar materials         Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: positive         Remarks: Based on data from similar materials         Genotoxicity in vivo       Test Type: Micronucleus test Species: Mouse         Application Route: Intraperitoneal injection Result: positive Remarks: Based on data from similar materials         Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse         Application Route: Ingestion Result: positive Remarks: Based on data from similar materials         Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse         Application Route: Ingestion Result: positive Remarks: Based on data from similar materials         Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse         Application Route: Ingestion Result: positive Remarks: Based on data from similar materials         Germ cell mutagenicity- As- sessment		•		Toot Type: Pooto	rial reverse mutation accev (AMES)
Result: negative         Cobalt disodium ethylenediaminetetraacetate:         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials         Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: positive Remarks: Based on data from similar materials         Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: positive Remarks: Based on data from similar materials         Genotoxicity in vivo       : Test Type: Micronucleus test Species: Mouse Application Route: Intraperitoneal injection Result: positive Remarks: Based on data from similar materials         Genotoxicity in vivo       : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Intraperitoneal injection Result: positive Remarks: Based on data from similar materials         Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: positive Remarks: Based on data from similar materials         Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: positive Remarks: Based on data from similar materials         Germ cell mutagenicity- As- sessment       : Positive result(s) from in vivo mammalian somatic cell mutagenicity tests. Remarks: Based on data from similar materials         Benzyl alcohol:       :	Geno		•		nai reverse mutation assay (AMES)
Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials         Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: positive Remarks: Based on data from similar materials         Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: positive Remarks: Based on data from similar materials         Genotoxicity in vivo       : Test Type: Micronucleus test Species: Mouse Application Route: Intraperitoneal injection Result: positive Remarks: Based on data from similar materials         Genotoxicity in vivo       : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Ingestion Result: positive Remarks: Based on data from similar materials         Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: positive Remarks: Based on data from similar materials         Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: positive Remarks: Based on data from similar materials         Germ cell mutagenicity- As- sessment       : Positive result(s) from in vivo mammalian somatic cell muta genicity tests. Remarks: Based on data from similar materials         Benzyl alcohol:       : Benzyl alcohol:					nosome aberration test in vitro
Method: OECD Test Guideline 471         Result: negative         Remarks: Based on data from similar materials         Test Type: In vitro mammalian cell gene mutation test         Method: OECD Test Guideline 476         Result: positive         Remarks: Based on data from similar materials         Test Type: Chromosome aberration test in vitro         Method: OECD Test Guideline 473         Result: positive         Remarks: Based on data from similar materials         Test Type: Chromosome aberration test in vitro         Method: OECD Test Guideline 473         Result: positive         Remarks: Based on data from similar materials         Test Type: Micronucleus test         Species: Mouse         Application Route: Intraperitoneal injection         Result: positive         Remarks: Based on data from similar materials         Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)         Species: Mouse         Application Route: Ingestion         Result: positive         Remarks: Based on data from similar materials         Test Type: Rodent dominant lethal test (germ cell) (in vivo)         Species: Mouse         Application Route: Ingestion         Result: positive         Remarks: Based on data fr	Coba	llt disodium ethylenedi	ami	netetraacetate:	
Method: OECD Test Guideline 476 Result: positive Remarks: Based on data from similar materials         Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: positive Remarks: Based on data from similar materials         Genotoxicity in vivo       Test Type: Micronucleus test Species: Mouse Application Route: Intraperitoneal injection Result: positive Remarks: Based on data from similar materials         Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Ingestion Result: positive Remarks: Based on data from similar materials         Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: positive Remarks: Based on data from similar materials         Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: positive Remarks: Based on data from similar materials         Germ cell mutagenicity- As- sessment       Positive result(s) from in vivo mammalian somatic cell muta- genicity tests. Remarks: Based on data from similar materials         Benzyl alcohol:       *	Geno	toxicity in vitro	:	Method: OECD T Result: negative	est Guideline 471
Remarks: Based on data from similar materials         Test Type: Chromosome aberration test in vitro         Method: OECD Test Guideline 473         Result: positive         Remarks: Based on data from similar materials         Genotoxicity in vivo       : Test Type: Micronucleus test         Species: Mouse         Application Route: Intraperitoneal injection         Result: positive         Remarks: Based on data from similar materials         Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)         Species: Mouse         Application Route: Ingestion         Result: positive         Remarks: Based on data from similar materials         Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)         Species: Mouse         Application Route: Ingestion         Result: positive         Remarks: Based on data from similar materials         Test Type: Rodent dominant lethal test (germ cell) (in vivo)         Species: Mouse         Application Route: Ingestion         Result: positive         Remarks: Based on data from similar materials         Germ cell mutagenicity- As-         sessment         Encyl alcohol:				Method: OECD T	
Method: OECD Test Guideline 473         Result: positive         Remarks: Based on data from similar materials         Genotoxicity in vivo       : Test Type: Micronucleus test         Species: Mouse         Application Route: Intraperitoneal injection         Result: positive         Remarks: Based on data from similar materials         Test Type: Mutagenicity (in vivo mammalian bone-marrow         cytogenetic test, chromosomal analysis)         Species: Mouse         Application Route: Ingestion         Result: positive         Remarks: Based on data from similar materials         Test Type: Rodent dominant lethal test (germ cell) (in vivo)         Species: Mouse         Application Route: Ingestion         Result: positive         Remarks: Based on data from similar materials         Test Type: Rodent dominant lethal test (germ cell) (in vivo)         Species: Mouse         Application Route: Ingestion         Result: positive         Remarks: Based on data from similar materials         Germ cell mutagenicity- As-         : Positive result(s) from in vivo mammalian somatic cell mutagenicity tests.         Remarks: Based on data from similar materials         Benzyl alcohol:					on data from similar materials
Genotoxicity in vivo       : Test Type: Micronucleus test Species: Mouse Application Route: Intraperitoneal injection Result: positive Remarks: Based on data from similar materials         Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Ingestion Result: positive Remarks: Based on data from similar materials         Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: positive Remarks: Based on data from similar materials         Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: positive Remarks: Based on data from similar materials         Germ cell mutagenicity- As- sessment       : Positive result(s) from in vivo mammalian somatic cell muta- genicity tests. Remarks: Based on data from similar materials         Benzyl alcohol:       :				Method: OECD T	
Species: Mouse Application Route: Intraperitoneal injection Result: positive Remarks: Based on data from similar materialsTest Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Ingestion Result: positive Remarks: Based on data from similar materialsTest Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: positive Remarks: Based on data from similar materialsTest Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: positive Remarks: Based on data from similar materialsGerm cell mutagenicity- As- sessmentPositive result(s) from in vivo mammalian somatic cell mutagenicity tests. Remarks: Based on data from similar materialsBenzyl alcohol:*********************************				•	on data from similar materials
Result: positive         Remarks: Based on data from similar materials         Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)         Species: Mouse         Application Route: Ingestion         Result: positive         Remarks: Based on data from similar materials         Test Type: Rodent dominant lethal test (germ cell) (in vivo)         Species: Mouse         Application Route: Ingestion         Result: positive         Remarks: Based on data from similar materials         Test Type: Rodent dominant lethal test (germ cell) (in vivo)         Species: Mouse         Application Route: Ingestion         Result: positive         Remarks: Based on data from similar materials         Germ cell mutagenicity- Assessment         :       Positive result(s) from in vivo mammalian somatic cell mutagenicity tests.         Remarks: Based on data from similar materials         Benzyl alcohol:	Geno	toxicity in vivo	:	Species: Mouse	
cytogenetic test, chromosomal analysis)         Species: Mouse         Application Route: Ingestion         Result: positive         Remarks: Based on data from similar materials         Test Type: Rodent dominant lethal test (germ cell) (in vivo)         Species: Mouse         Application Route: Ingestion         Result: positive         Remarks: Based on data from similar materials         Germ cell mutagenicity- Assessment         :       Positive result(s) from in vivo mammalian somatic cell mutagenicity tests.         Remarks: Based on data from similar materials         Benzyl alcohol:				Result: positive	
Species: Mouse         Application Route: Ingestion         Result: positive         Remarks: Based on data from similar materials         Test Type: Rodent dominant lethal test (germ cell) (in vivo)         Species: Mouse         Application Route: Ingestion         Result: positive         Remarks: Based on data from similar materials         Germ cell mutagenicity- Assessment         :       Positive result(s) from in vivo mammalian somatic cell mutagenicity tests.         Remarks: Based on data from similar materials         Benzyl alcohol:					
Remarks: Based on data from similar materials         Test Type: Rodent dominant lethal test (germ cell) (in vivo)         Species: Mouse         Application Route: Ingestion         Result: positive         Remarks: Based on data from similar materials         Germ cell mutagenicity- Assessment         Positive result(s) from in vivo mammalian somatic cell mutagenicity tests.         Remarks: Based on data from similar materials         Benzyl alcohol:				Species: Mouse Application Route	
Species: Mouse         Application Route: Ingestion         Result: positive         Remarks: Based on data from similar materials         Germ cell mutagenicity- Assessment         :       Positive result(s) from in vivo mammalian somatic cell mutagenicity tests.         Remarks: Based on data from similar materials         Benzyl alcohol:					on data from similar materials
Germ cell mutagenicity- Assessment       :       Positive result(s) from in vivo mammalian somatic cell mutagenicity tests.         Remarks: Based on data from similar materials         Benzyl alcohol:				Species: Mouse Application Route	
sessment genicity tests. Remarks: Based on data from similar materials Benzyl alcohol:					on data from similar materials
	Germ sessr	n cell mutagenicity- As- nent	:	genicity tests.	
	II Benz	vl alcohol:			
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)		•	:	Test Type: Bacter	rial reverse mutation assay (AMES)



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			Result: negative	- lien om de mei en miner andere de stationer de statio
Geno	otoxicity in vivo	:	cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo /) :: Intraperitoneal injection
Citrio	c acid:			
	otoxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: in vitro Result: positive	o micronucleus test
			Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
Geno	otoxicity in vivo	:		enicity (in vivo mammalian bone-marrow chromosomal analysis) :: Ingestion
Sodi	um selenate:			
Geno	otoxicity in vitro	:	Method: OECD T Result: negative	rial reverse mutation assay (AMES) est Guideline 471 on data from similar materials
ahan	nectin (combination o	f ave	rmectin B1a and a	avermectin B1b) (ISO):
	ptoxicity in vitro	:		rial reverse mutation assay (AMES)

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells Result: negative
	Test Type: Alkaline elution assay Result: negative
Genotoxicity in vivo	: Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Intraperitoneal injection Result: negative



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## Carcinogenicity

Suspected of causing cancer.

#### Components:

#### levamisole hydrochloride:

Species Application Route Exposure time NOAEL Remarks		Mouse Oral 2 Years 80 mg/kg body weight No significant adverse effects were reported
Species Application Route Exposure time NOAEL Remarks		Rat Oral 2 Years 40 mg/kg body weight No significant adverse effects were reported
Cobalt disodium ethylenedia	mi	netetraacetate:
Species Application Route Exposure time Result Remarks		Rat inhalation (dust/mist/fume) 105 weeks positive Based on data from similar materials
Species Application Route Exposure time Result Remarks		Mouse inhalation (dust/mist/fume) 105 weeks positive Based on data from similar materials
Carcinogenicity - Assess- ment	:	Limited evidence of carcinogenicity in animal studies Remarks: Based on data from similar materials
Benzyl alcohol:		
Species Application Route Exposure time Method Result		Mouse Ingestion 103 weeks OECD Test Guideline 451 negative

## abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

Species	: Rat
Application Route	: Oral
Exposure time	: 105 weeks
Result	: negative
Species	: Mouse
Application Route	: Oral
Exposure time	: 93 weeks



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Re	esult		:	negative		
Su	-	0 0	y. S	uspected of damag	ging the unborn child.	
		e hydrochloride:				
	ffects on	-	:	: Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: Oral Result: No significant adverse effects were reported		
	ffects on ent	foetal develop-	:	Species: Rat Application Route	oxicity: NOAEL: 20 mg/kg body weight	
				Species: Rabbit Application Route	oxicity: LOAEL: 40 mg/kg body weight	
	eproducti essment	ve toxicity - As-	:	Some evidence o animal experimen	f adverse effects on development, based on its.	
II Co	obalt dis	odium ethylenedi	ami	netetraacetate:		
	ffects on	-	:	Test Type: Fertilit Species: Rat Application Route Result: positive	y/early embryonic development :: Ingestion on data from similar materials	
				Species: Mouse Application Route Result: positive	y/early embryonic development :: Ingestion on data from similar materials	
				Species: Mouse	y/early embryonic development :: inhalation (dust/mist/fume)	

Result: positive Remarks: Based on data from similar materials Test Type: Fertility/early embryonic development

Species: Rat Application Route: inhalation (dust/mist/fume) Result: positive



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			Remarks: Based	on data from similar materials
Effec ment	ts on foetal develop-	:	Species: Rat Application Route Method: OECD T Result: negative	
	oductive toxicity - As- ment	:	fertility, based on	f adverse effects on sexual function and animal experiments. on data from similar materials
Benz	yl alcohol:			
	ets on fertility	:	Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion on data from similar materials
Effec ment	ts on foetal develop-	:	Test Type: Embry Species: Mouse Application Route Result: negative	ro-foetal development : Ingestion
Citrie	c acid:			
Effec ment	ts on foetal develop-	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
Sodi	um selenate:			
	ets on fertility	:	Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion on data from similar materials
Effec ment	ts on foetal develop-	:	Species: Mouse Application Route Result: negative	ro-foetal development : Ingestion on data from similar materials
aban	nectin (combination of	ave	rmectin B1a and a	avermectin B1b) (ISO):
	ets on fertility	:	Test Type: Fertilit Species: Rat, ma Application Route Result: Effects on	y e : Oral



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		S A E V	Species: Rat Application Route	Development: NOAEL: 0,12 mg/kg body	
Effect	Effects on foetal develop- : ment		<ul> <li>Test Type: Embryo-foetal development Species: Mouse Application Route: Oral General Toxicity Maternal: NOAEL: 0,05 mg/kg body w Developmental Toxicity: NOAEL: 0,2 mg/kg body weigh Result: Cleft palate Remarks: Adverse developmental effects were observe Test Type: Embryo-foetal development Species: Rabbit Application Route: Oral Developmental Toxicity: LOAEL: 2 mg/kg body weight Result: Cleft palate, Teratogenic effects, Reduced emb survival</li> </ul>		
Repro	ductive toxicity - As-	F S <i>F</i> F	Remarks: Adverse Fest Type: Develo Species: Rat Application Route Developmental To Result: Teratogen	: Oral oxicity: LOAEL: 1,6 mg/kg body weight	
sessm	-	f a	ertility, based on	animal experiments., Some evidence of a development, based on animal experi-	
Not cl	- single exposure assified based on avail ponents:	able in	formation.		
Citric Asses		: N	May cause respira	atory irritation.	
May c	- repeated exposure ause damage to organa conents:	s throu	ıgh prolonged or ı	repeated exposure.	
Targe	<b>iisole hydrochloride:</b> t Organs ssment		Blood, Testis May cause damag	ge to organs through prolonged or repeated	



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Ш		exposure.					
Coba	It disodium ethylene	diaminetetraacetate	:				
Targe	sure routes et Organs ssment	: Respiratory Tr : Shown to proc	inhalation (dust/mist/fume) Respiratory Tract Shown to produce significant health effects in animals at con-				
Rema	arks		0.02 mg/l/6h/d or less. a from similar materials				
Targe	sure routes et Organs ssment arks	centrations of	;, Blood luce significant health effects in animals at con- >10 to 100 mg/kg bw. a from similar materials				
Sodiu	um selenate:						
	sure routes ssment		luce significant health effects in animals at con- 10 mg/kg bw or less.				
abam	ectin (combination o	of avermectin B1a a	nd avermectin B1b) (ISO):				
Expo Targe	sure routes et Organs ssment	: Ingestion : Central nervol	<ul> <li>Ingestion</li> <li>Central nervous system</li> <li>Causes damage to organs through prolonged or repeated</li> </ul>				
Repe	ated dose toxicity						
<u>Com</u>	ponents:						
	nisole hydrochloride	:					
Expo	ies EL cation Route sure time et Organs	: Rat : 2,5 mg/kg : Oral : 18 Months : Testis					
Expo		: Dog : 20 mg/kg : Oral : 18 Months : Blood	: 20 mg/kg : Oral : 18 Months				
		: Dog : 40 mg/kg : Oral : 3 Months	: 40 mg/kg : Oral				

Cobalt disodium ethylenediaminetetraacetate:

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



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Specie LOAE Applic Expos Rema	L ation Route sure time	: Rat : > 10 mg/kg : Ingestion : 90 Days : Based on data	from similar materials	
	L ation Route sure time od	: Rat : < 0,01 mg/l : inhalation (dus : 13 Weeks : OECD Test Go : Based on data		
	L ation Route sure time od	: Mouse : < 0,01 mg/l : inhalation (dus : 13 Weeks : OECD Test Gu : Based on data		
Specie NOAE Applic	L ation Route sure time	: Rat : 1,072 mg/l : inhalation (dus : 28 Days : OECD Test Gu		
	es EL	: Rat : 4.000 mg/kg : 8.000 mg/kg : Ingestion : 10 Days		
Specie NOAE Applic		: Rat : 0,4 mg/kg : Ingestion : 13 Weeks		
Specie NOAE Applic Expos	es	f avermectin B1a ar : Rat : 1,5 mg/kg : Oral : 24 Months : Central nervou	nd avermectin B1b) (ISO):	
Sympt	toms	: Tremors, ataxi		

## SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended by



#### Commission Regulation (EU) 2020/878

## Abamectin / Levamisole Hydrochloride / Cobalt EDTA / Sodium Selenate Formulation

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Expo	cation Route sure time et Organs	<ul> <li>4,0 mg/kg</li> <li>Oral</li> <li>24 Months</li> <li>Central nervous system</li> <li>Tremors, ataxia</li> </ul>	
Expo Targe	EL EL cation Route sure time et Organs otoms	<ul> <li>Dog</li> <li>0,25 mg/kg</li> <li>0,5 mg/kg</li> <li>Oral</li> <li>53 Weeks</li> <li>Central nervous system</li> <li>Tremors, weight loss</li> <li>mortality observed</li> </ul>	
Expo		<ul> <li>Monkey</li> <li>1,0 mg/kg</li> <li>Oral</li> <li>14 Weeks</li> <li>Central nervous system</li> </ul>	
Not c	ration toxicity lassified based on ava mation on other haz		
Endo	crine disrupting pro	erties	
<u>Prod</u> Asses	uct: ssment	: The substance/mixture does not contain components cor	nsid-

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.

#### Experience with human exposure

#### **Components:**

Vomiting, Headache, Dizziness, hypo-
1

#### Cobalt disodium ethylenediaminetetraacetate:

Inhalation	: Target Organs: Respiratory system
	Remarks: Based on data from similar materials
Ingestion	: Target Organs: Blood
	Remarks: Based on data from similar materials
	Target Organs: Heart
	Target Organs: Thyroid

## abamectin (combination of avermectin B1a and avermectin B1b) (ISO):



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Inges	tion	:	: Symptoms: May cause, Tremors, Diarrhoea, central nervou system effects, Salivation, tearing			
SECTION	12: Ecological infor	ma	tion			
2.1 Toxic	city					
<u>Com</u>	oonents:					
levan	nisole hydrochloride:					
Toxic	ity to fish	:	LC50 (Oryzias latip Exposure time: 96 Method: OECD Tes			
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia magna (Water flea)): 64 mg/l Exposure time: 48 h Method: OECD Test Guideline 202			
Coba	It disodium ethylenedia	ami	netetraacetate:			
	ity to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD Tes			
Toxic plants	ity to algae/aquatic	:	<ul> <li>ErC50 (Raphidocelis subcapitata (freshwater green alga)): 100 mg/l</li> <li>Exposure time: 72 h</li> <li>Method: OECD Test Guideline 201</li> <li>Remarks: Based on data from similar materials</li> </ul>			
Toxic icity)	ity to fish (Chronic tox-	:	EC10: > 1 mg/l Exposure time: 34 d Species: Danio rerio (zebra fish) Remarks: Based on data from similar materials			
	ity to daphnia and other ic invertebrates (Chron- icity)	:	: EC10: > 0,01 - 0,1 mg/l Exposure time: 28 d Species: Hyalella azteca (Amphipod) Method: OECD Test Guideline 211 Remarks: Based on data from similar materials			
M-Fac toxicit	ctor (Chronic aquatic ty)	:	1			
Benz	yl alcohol:					
Toxic	ity to fish	:	LC50 (Pimephales Exposure time: 96	promelas (fathead minnow)): 460 mg/l h		
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia ma Exposure time: 48 Method: OECD Tes			



/ersion 3.0	Revision Date: 06.04.2024		9S Number: 814135-00006	Date of last issue: 04.12.2023 Date of first issue: 12.07.2022
Toxicity plants	y to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	y to daphnia and other invertebrates (Chron- ity)	:	NOEC: 51 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
Citric a	acid:			
	/ to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): > 100 mg/l s h
	y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 24	agna (Water flea)): 1.535 mg/l ⊧h
Sodiur	n selenate:			
Toxicity	y to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 1 - 10 mg/l 5 h on data from similar materials
	/ to daphnia and other invertebrates	:	Exposure time: 48	agna (Water flea)): > 1 - 10 mg/l s h on data from similar materials
Toxicity plants	y to algae/aquatic	:	ErC50 (Chlamydo Exposure time: 96	monas reinhardtii (green algae)): 245 µg/l 5 h
			NOEC (Chlamydo Exposure time: 96	monas reinhardtii (green algae)): 197 μg/l δ h
M-Fact icity)	or (Acute aquatic tox-	:	1	
Toxicity	y to microorganisms	:	EC10 (activated s Exposure time: 3 Method: OECD Te	h
Toxicity icity)	y to fish (Chronic tox-	:		



ersion D	Revision Date: 06.04.2024		9S Number: 814135-00006	Date of last issue: 04.12.2023 Date of first issue: 12.07.2022	
	/ to daphnia and other invertebrates (Chron- ity)		NOEC: > 0,1 - 1 mg/l Exposure time: 28 d Remarks: Based on data from similar materials		
M-Fact toxicity	or (Chronic aquatic )	:	1		
abame	ctin (combination of a	ion of avermectin B1a and avermectin B1b) (ISO):			
Toxicity	/ to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 3,2 µg/l Exposure time: 96 h		
			LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 9,6 µg/l Sh	
			LC50 (Ictalurus pu Exposure time: 96	unctatus (channel catfish)): 24 μg/l δ h	
			LC50 (Cyprinus ca Exposure time: 96	arpio (Carp)): 42 μg/l δ h	
			LC50 (Cyprinodor Exposure time: 96	n variegatus (sheepshead minnow)): 15 μg/l δ h	
	/ to daphnia and other invertebrates	:	EC50 (Americamy Exposure time: 96		
			EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0,34 μg/l } h	
Toxicity plants	/ to algae/aquatic	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h		
M-Fact icity)	or (Acute aquatic tox-	:	10.000		
Toxicity	/ to microorganisms	:	EC50 : > 1.000 m Exposure time: 3 Test Type: Respir	ĥ	
Toxicity icity)	/ to fish (Chronic tox-	:	NOEC: 0,52 μg/l Exposure time: 32 d Species: Pimephales promelas (fathead minnow)		
	/ to daphnia and other invertebrates (Chron- ity)	:	NOEC: 0,03 µg/l Exposure time: 21 Species: Daphnia	d magna (Water flea)	
			NOEC: 0,0035 µg Exposure time: 28 Species: Mysidop		



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M-Factor (Chronic aquatic toxicity)		: 10.000	
12.2 Persis	stence and degradabi	ity	
Comp	oonents:		
	<b>yl alcohol:</b> gradability	: Result: Readily biodegradable. Biodegradation: 92 - 96 % Exposure time: 14 d	
Citric			
Biode	gradability	<ul> <li>Result: Readily biodegradable.</li> <li>Biodegradation: 97 %</li> <li>Exposure time: 28 d</li> <li>Method: OECD Test Guideline 301B</li> </ul>	
abam	ectin (combination of	avermectin B1a and avermectin B1b) (ISO):	
Stabili	ity in water	: Hydrolysis: 50 %(< 12 h)	
12.3 Bioac	cumulative potential		
Comp	oonents:		
Cobal	lt disodium ethylened	aminetetraacetate:	
	on coefficient: n- ol/water	: log Pow: -3,86 Remarks: Calculation	
Benzy	/l alcohol:		
	on coefficient: n- ol/water	: log Pow: 1,05	
Citric	acid:		
	on coefficient: n- ol/water	: log Pow: -1,72	
abam	ectin (combination of	avermectin B1a and avermectin B1b) (ISO):	
Bioaco	cumulation	: Bioconcentration factor (BCF): 52	
	on coefficient: n- ol/water	: log Pow: 4	
12.4 Mobil	lity in soil		
Comp	oonents:		
abam	ectin (combination of	avermectin B1a and avermectin B1b) (ISO):	
Distrib	oution among environ- al compartments		



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## 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment

: 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 Endocrine disrupting properties

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 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 or ID number

ADN	:	UN 3082
ADR	:	UN 3082
RID	:	UN 3082
IMDG	:	UN 3082
ΙΑΤΑ	:	UN 3082
14.2 UN proper shipping name		
ADN	:	

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (abamectin (combination of avermectin B1a and avermectin B1b) (ISO), Cobalt disodium ethylenediaminetetraacetate)



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A	ADR		:	N.O.S. (abamectin (comb	ALLY HAZARDOUS SUBSTANCE, LIQUID, bination of avermectin B1a and avermectin It disodium ethylenediaminetetraacetate)	
F	RID		:	N.O.S. (abamectin (comb	ALLY HAZARDOUS SUBSTANCE, LIQUID, bination of avermectin B1a and avermectin It disodium ethylenediaminetetraacetate)	
I	MDG		:	N.O.S. (abamectin (comb	ALLY HAZARDOUS SUBSTANCE, LIQUID, bination of avermectin B1a and avermectin It disodium ethylenediaminetetraacetate)	
L	ΑΤΑ		:	Environmentally hazardous substance, liquid, n.o.s. (abamectin (combination of avermectin B1a and avermectin B1b) (ISO), Cobalt disodium ethylenediaminetetraacetate)		
14.3 1	Transp	oort hazard class(es)				
				Class	Subsidiary risks	
A	ADN		:	9		
A	ADR		:	9		
F	RID		:	9		
I	MDG		:	9		
L	ΑΤΑ		:	9		
14.4 F	Packin	ig group				
F C F	Classifi	g group cation Code Identification Number	:	III M6 90 9		
F C F L	Classifi Hazard Labels	g group cation Code Identification Number restriction code	:	III M6 90 9 (-)		
F C F	Classifi	g group cation Code Identification Number	:	III M6 90 9		
F	MDG Packing Labels EmS C	g group ode	:	III 9 F-A, S-F		



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F E F F	aircraft)	nstruction (cargo nstruction (LQ)		964 Y964 III Miscellaneous	
F G F F L	Packing in ger aircra Packing in Packing g Labels	nstruction (LQ)	:	964 Y964 III Miscellaneous	
	<b>ADN</b> Environm	entally hazardous		ves	
	ADR	entally hazardous	:	yes	
-	<b>RID</b> Environm	entally hazardous	:	yes	
	IMDG Marine po	ollutant	:	yes	
		<b>ssenger)</b> entally hazardous	:	yes	
	<b>IATA (Ca</b> Environm	r <b>go)</b> entally hazardous	:	yes	
14.6	Special p	precautions for use	ər		

#### 14.6 Special precautions for use

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 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
--	---	--

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their

## **SAFETY DATA SHEET** according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## Abamectin / Levamisole Hydrochloride / Cobalt EDTA / Sodium Selenate Formulation

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					restriction. Please tions in correspon determine whethe	e conditions of the refer to the condi- ding Regulation to r an entry is appli- ng on the market or
					If you intend to us tattoo ink, please dor.	
	EACH - Candidate List of Support of Authorisation (Ar		n :	:	Not applicable	
RE	EACH - List of substances s nnex XIV)		:	:	Not applicable	
Ře	egulation (EC) No 1005/200 ete the ozone layer	9 on substances that c	le- :	:	Not applicable	
Re	egulation (EU) 2019/1021 o nts (recast)	n persistent organic po	llu- :	:	Not applicable	
Re me	egulation (EU) No 649/2012 ent and the Council concerr dangerous chemicals			:	Not applicable	
Se	eveso III: Directive 2012/18/ ajor-accident hazards involv			ent	t and of the Council	on the control of
E1	-	ENVIRONMENTA HAZARDS			Quantity 1 100 t	Quantity 2 200 t
Ot	ther regulations:					
pre	ote the Working Environmer egnant employees against o orking environment.					
No	ote the regulation on organized in the regulation on organized in the regulation on organized in the regulation of the	zation, leadership and	particip	ba	tion, chapter 12 on	the work of
	ne components of this pro	-	the foll	lo	wing inventories:	
	CS	: not determined				
DS		: not determined				
IE	CSC	: not determined				

## 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.



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#### Full text of H-Statements

H300 :	:	Fatal if swallowed.
H301 :	:	Toxic if swallowed.
H302 :	:	Harmful if swallowed.
H311 :	:	Toxic in contact with skin.
H315 :	:	Causes skin irritation.
H319 :	:	Causes serious eye irritation.
H330 :	:	Fatal if inhaled.
H332 :	:	Harmful if inhaled.
H334 :	:	May cause allergy or asthma symptoms or breathing difficul-
		ties if inhaled.
H335 :	:	May cause respiratory irritation.
H341 :	:	Suspected of causing genetic defects.
H351 :	:	Suspected of causing cancer.
H361d :	:	Suspected of damaging the unborn child.
H361f :	:	Suspected of damaging fertility.
H361fd :	:	Suspected of damaging fertility. Suspected of damaging the
		unborn child.
H372 :	:	Causes damage to organs through prolonged or repeated
		exposure.
H372 :	:	Causes damage to organs through prolonged or repeated
		exposure if swallowed.
H373 :	:	May cause damage to organs through prolonged or repeated
		exposure if swallowed.
H400 :	:	Very toxic to aquatic life.
H410 :	:	Very toxic to aquatic life with long lasting effects.
H412 :	:	Harmful to aquatic life with long lasting effects.
Full text of other abbreviation		
	13	• • • •
Acute Tox.	:	Acute toxicity
Aquatic Acute :	:	Short-term (acute) aquatic hazard
Aquatic Chronic :	:	Long-term (chronic) aquatic hazard
Carc.	:	Carcinogenicity
Eye Irrit.	:	Eye irritation
Muta.	:	Germ cell mutagenicity
Repr.	:	Reproductive toxicity
Resp. Sens.	:	Respiratory sensitisation
Skin Irrit.	:	Skin irritation
STOT RE :	:	Specific target organ toxicity - repeated exposure
STOT SE :	:	Specific target organ toxicity - single exposure
FOR-2011-12-06-1358 :	:	Norway. Occupational Exposure limits
FOR-2011-12-06-1358 / :	:	Long term exposure limit
TWA		

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



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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 used to :	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data	eChem Portal search results and European Chemicals Agen-
Sheet	cy, http://echa.europa.eu/

Classification of the mixtur	Classification procedure:	
Acute Tox. 4	H302	Calculation method
Resp. Sens. 1	H334	Calculation method
Muta. 2	H341	Calculation method
Carc. 2	H351	Calculation method
Repr. 2	H361fd	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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



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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.

NO / EN