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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	fety 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 Short-term (acute) aquatic hazard, Cate-	H373: May cause damage to organs through pro- longed or repeated exposure. H400: Very toxic to aquatic life.



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gory Long- egory	term (chronic) aquatio	hazard, Cat-	H410: Very toxic to aquatic life with long lasting effects.
2 Label	elements		
	Iling (REGULATION (rd pictograms	EC) No 1272/2	
Signa	l word	: Danger	\mathbf{v}
Haza	rd statements	: H302 H334	Harmful if swallowed. May cause allergy or asthma symptoms or breat ing difficulties if inhaled.
		H341 H351 H361fd	Suspected of causing genetic defects. Suspected of causing cancer. Suspected of damaging fertility. Suspected of
		H373	damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.
		H410	Very toxic to aquatic life with long lasting effects
Preca	autionary statements	: Preventi	on:
		P201 P273 P280	Obtain special instructions before use. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Respons	e:
		P304 + F	340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
		P342 + P	POISON CENTER/ doctor.
		P391	Collect spillage.

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 ethylenedia- minetetraacetate	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	Acute Tox. 2; H300 Acute Tox. 2; H330	>= 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 n B1a and avermectin		STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 Acute toxicity estimate Acute oral toxicity: 5.01 mg/kg Acute Tox. 2; H300 Acute Tox. 1; H330

For explanation of abbreviations see section 16.



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SECTION 4: First aid measures

4.1 Description of first aid measu	ires	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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.	
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. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.	
4.2 Most important symptoms and effects, both acute and delayed			
Risks	:	Harmful if swallowed. May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. Suspected of causing genetic defects. Suspected of causing cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reac- tive airways dysfunction syndrome).	
4.3 Indication of any immediate m	nec	dical attention and special treatment needed	
Treatment	:	Treat symptomatically 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	e substance or mixture
	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 protective equipment recommendations (see section 8).	Personal precautions
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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



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		cannot be conta	ined.
6.3 Metho	ds and material for c	ontainment and clear	ing up
Metho	ds for cleaning up	For large spills, ment to keep ma be pumped, stor Clean up remain bent. Local or nationa posal of this ma employed in the mine which regu Sections 13 and	ert absorbent material. provide dyking or other appropriate contain- aterial from spreading. If dyked material can re recovered material in appropriate container. hing materials from spill with suitable absor- I regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding mational 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 EXPOSUR CONTROLS/PERSONAL PROTECTION sec	
Local/Total ventilation	: Use only with adequate ventilation.	
Advice on safe handling	: Do not breathe mist or vapours.	
5	Do not swallow.	
	Avoid contact with eyes.	
	Avoid prolonged or repeated contact with skir	n
	Wash skin thoroughly after handling.	
	Handle in accordance with good industrial hy	niono and cafaty
	practice, based on the results of the workplace	
	sessment	e exposure as-
	Keep container tightly closed.	
	Already sensitised individuals, and those sus	
	to asthma, allergies, chronic or recurrent resp	
	should consult their physician regarding work	ing with respira-
	tory irritants or sensitisers.	
	Do not eat, drink or smoke when using this pr	
	Take care to prevent spills, waste and minimi environment.	ze release to the
Hygiene measures	: If exposure to chemical is likely during typical	use, provide eye
	flushing systems and safety showers close to	
	place. When using do not eat, drink or smoke	5
	nated clothing before re-use.	
	The effective operation of a facility should inc	lude review of
	engineering controls, proper personal protect	
	appropriate degowning and decontamination	
	industrial hygiene monitoring, medical surveil	ance and the



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		use of administ	rative controls.
7.2 Condit	ions for safe storage,	including any inco	npatibilities
	rements for storage and containers		y labelled containers. Store locked up. Keep Store in accordance with the particular national
Advice	e on common storage	Strong oxidizing	bstances and mixtures
-	ic end use(s)	Nu lata a stat	

Specific use(s)

: No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

				1 1		
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 ²	Internal		
Cobalt disodium ethylenedia- minetetraacetate	15137-09-4	OELV - 8 hrs (TWA)	0.02 mg/m3 (Cobalt)	IE OEL		
	Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis					
Sodium selenate	13410-01-0	OELV - 8 hrs (TWA)	0.1 mg/m3 (selenium)	IE OEL		
		TWA	20 µg/m3 (OEB 3)	Internal		
		Wipe limit	200 µg/100 cm ²	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	22 mg/m3



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					effects	
		Workers		Inhalation	Acute systemic ef- fects	110 mg/m3
		Workers		Skin contact	Long-term systemic effects	c 8 mg/kg bw/day
		Workers		Skin contact	Acute systemic ef- fects	
		Consume	rs	Inhalation	Long-term systemic effects	
		Consume	rs	Inhalation	Acute systemic ef- fects	27 mg/m3
		Consume	rs	Skin contact	Long-term systemic effects	c 4 mg/kg bw/day
		Consume	rs	Skin contact	Acute systemic ef- fects	20 mg/kg bw/day
		Consume	rs	Ingestion	Long-term systemic effects	
		Consume	rs	Ingestion	Acute systemic ef- fects	20 mg/kg bw/day
	t disodium eth- diaminetetraace-	Workers		Inhalation	Long-term systemic effects	
		Workers		Skin contact	Long-term systemic effects	c 1 mg/kg bw/day
		Consume	rs	Inhalation	Long-term systemic effects	
		Consume	rs	Skin contact	Long-term systemic effects	c 0.5 mg/kg bw/day
		Consume	rs	Ingestion	Long-term systemic effects	c 0.025 mg/kg bw/day
Sodiu	m selenate	Workers		Inhalation	Long-term systemic effects	c 0.12 mg/m3
		Workers		Skin contact	Long-term systemic effects	c 16.73 mg/kg bw/day
		Consume	rs	Inhalation	Long-term systemic effects	c 0.036 mg/m3
		Consume	rs	Skin contact	Long-term systemic effects	bw/day
		Consume	rs	Ingestion	Long-term systemic effects	c 0.01028 mg/kg bw/da
J		oncentratio		, ,	o Regulation (EC) No	1
Substance name Benzyl alcohol			ronmental Compa	artment	Value	
				h water		1 mg/l
			ne water	~	0.1 mg/l	
				mittent use/releas		2.3 mg/l
				age treatment pla h water sediment		39 mg/l 5.27 mg/kg
				ne sediment		0.527 mg/kg
			Soil			0.456 mg/kg
	noic acid, mixed d	iostoro	Soil			0.2638 mg/kg



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with o glyco	octanoic acid and propyle	ene		
Citric	acid	Fresh water		0.44 mg/l
		Marine water		0.044 mg/l
		Sewage treatm	nent plant	1000 mg/l
		Fresh water se	ediment	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- tetraacetate	Fresh water		0.1 mg/l
		Marine water		0.01 mg/l
		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	um selenate	Fresh water		6.38 µg/l
		Freshwater - ir	ntermittent	6.38 µg/l
I		Marine water		4.09 µg/l
		Sewage treatm	nent plant	10 mg/l
		Fresh water se		19.7 mg/kg dry weight (d.w.)
		Marine sedime	ent	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	:	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		

Hand protection



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Ma	aterial	: Chemical-resis	tant gloves
	marks and body protection	 Consider double gloving. Work uniform or laboratory coat. Additional body garments should be used based upon task being performed (e.g., sleevelets, apron, gauntlets posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove pote contaminated clothing. 	
	ratory protection ter type	sure assessme ommended gui Equipment sho	al exhaust ventilation is not available or expo- ont demonstrates exposures outside the rec- delines, use respiratory protection. uld conform to I.S. EN 14387 iculates 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



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	Viscos Viso	ity cosity, kinematic	:	No data available	3		
	Solubil Wa	ity(ies) ter solubility	:	No data available			
	Partitic octano	n coefficient: n- I/water	:	Not applicable			
	Vapou	r pressure	:	No data available)		
	Relativ	e density	:	: No data available			
	Density	ý	:	No data available)		
	Relativ	e vapour density	:	No data available)		
		e characteristics ticle size	:	Not applicable			
9.2		nformation					
	Explos	ives	:	Not explosive			
	Oxidizi	ng properties	:	The substance of	r mixture is not classified as oxidizing.		
	Evapo	ration rate	:	No data available)		
	Molecu	ılar weight	:	No data available	9		

SECTION 10: Stability and reactivity

10.1 Reactivity Not classified as a reactivity hazar	d.
10.2 Chemical stability Stable under normal conditions.	
10.3 Possibility of hazardous reactio	ns
Hazardous reactions :	Can react with strong oxidizing agents.
10.4 Conditions to avoid	
Conditions to avoid :	None known.
10.5 Incompatible materials Materials to avoid :	Oxidizing agents



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10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1	11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008				
	Information on likely routes of exposure	:	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	mi	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		



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II			Method: OECD 1	est Guideline 403	
Citric	c acid:				
Acute	e oral toxicity	:	LD50 (Mouse): 5	,400 mg/kg	
Acute	e dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity		
Sodi	um selenate:				
Acute	e oral toxicity	:	LD50 (Rat): > 5 - Remarks: Based	50 mg/kg on data from similar materials	
Acute	e inhalation toxicity	:	LC50 (Rat): > 0.052 - 0.51 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403		
aban	nectin (combination o	of ave	rmectin B1a and	avermectin B1b) (ISO):	
	e oral toxicity		LD50 (Rat): 24 m		
			LD50 (Mouse): 1	0 mg/kg	
			LDLo (Monkey): Symptoms: Dilata		
Acute	e inhalation toxicity	:	LC50 (Rat): 0.023 mg/l Exposure time: 4 h Test atmosphere: dust/mist		
Acute	e dermal toxicity	:	LD50 (Rat): 330	mg/kg	
			LD50 (Rabbit): 2	,000 mg/kg	
-	corrosion/irritation lassified based on ava	ilable	information.		
<u>Com</u>	ponents:				
	nisole hydrochloride:	:			
Rema	arks	:	No data available	9	
Coba	It disodium ethylene	diami	netetraacetate:		
Spec		:	Rabbit	aline 101	
Meth Resu			OECD Test Guid No skin irritation	eine 404	
Rema		:		om similar materials	



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Benz	yl alcohol:		
Spec	•	: Rabbit	
Meth		: OECD Test C	Guideline 404
Resu	lt	: No skin irritat	ion
Citric	acid:		
Spec	ies	: Rabbit	
Meth		: OECD Test O	
Resu	lt	: No skin irritat	ion
Sodiu	um selenate:		
Spec			d human epidermis (RhE)
Meth	od	: OECD Test C	
Spec	ies	: reconstructed	d human epidermis (RhE)
Metho	od	: OECD Test C	Guideline 439
Resu	lt	: Skin irritation	
aham	actin (combination	of overmeetin P1e a	and avermectin B1b) (ISO):
Spec	-	: Rabbit	
Resu	lt	: No skin irritat	ion
Not c	bus eye damage/eye lassified based on ava		
	ponents:		
	nisole hydrochloride		
Rema	arks	: No data avail	able
Coba	It disodium ethylene	ediaminetetraacetat	e:
Spec		: Rabbit	
Resu		: No eye irritati	
Rema	arks	: Based on dat	a from similar materials
Benz	yl alcohol:		
Spec		: Rabbit	
Meth		: OECD Test C	
Resu	It	: Irritation to ey	es, reversing within 21 days
Citric	acid:		
Spec	ies	: Rabbit	
Meth		: OECD Test C	
Resu	It	: Irritation to ey	es, reversing within 21 days



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Sodium selenate:

Species Method		Bovine cornea OECD Test Guideline 437
Result	:	No eye irritation

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

Species Result	:	Rabbit
Result	:	Mild eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Components:

levamisole hydrochloride:

Remarks : No data available

Cobalt disodium ethylenediaminetetraacetate:

Exposure routes Species Result Remarks	:	inhalation (dust/mist/fume) Humans positive Based on data from similar materials
Assessment	:	Probability or evidence of low to moderate respiratory sensiti- sation rate in humans

Benzyl alcohol:

: Maximisation Test
: Skin contact
: Guinea pig
: OECD Test Guideline 406
: negative

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

Test Type Exposure routes Result	:	Maximisation Test
Exposure routes	:	Skin contact
Result	:	Not a skin sensitizer.



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Germ cell mutagenicity

Suspected of causing genetic defects.

Components:

levamisole hydrochloride:		
Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vitro		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 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
Germ cell mutagenicity- As- sessment	:	Positive result(s) from in vivo mammalian somatic cell muta- genicity tests. Remarks: Based on data from similar materials



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Benz	yl alcohol:			
	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
Geno	Genotoxicity in vivo		cytogenetic assa Species: Mouse	nalian erythrocyte micronucleus test (in vivo y) e: Intraperitoneal injection
Citric	acid:			
Geno	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: in vitr Result: positive	o micronucleus test
			Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
Geno	toxicity in vivo			genicity (in vivo mammalian bone-marrow chromosomal analysis) e: Ingestion
Sodi	um selenate:			
Geno	toxicity in vitro	:	Method: OECD T Result: negative	rial reverse mutation assay (AMES) Test Guideline 471
			Remarks: Based	on data from similar materials
	•	of aver	mectin B1a and	avermectin B1b) (ISO):
Geno	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
				o mammalian cell gene mutation test nese hamster lung cells
			Test Type: Alkali Result: negative	ne elution assay
Geno	toxicity in vivo		cytogenetic test, Species: Mouse	genicity (in vivo mammalian bone-marrow chromosomal analysis) e: Intraperitoneal injection



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II

Carcinogenicity

Suspected of causing cancer.

Components:

levamisole hydrochloride:

Species	Mouse
Application Route	Oral
Exposure time	2 Years
NOAEL	80 mg/kg body weight
Remarks	No significant adverse effects were reported
Species	Rat
Application Route	Oral
Exposure time	2 Years
NOAEL	40 mg/kg body weight
Remarks	No significant adverse effects were reported
Cobalt disodium ethylenedian	ninetetraacetate:
Species	Rat
Application Route	inhalation (dust/mist/fume)
Exposure time	105 weeks
Result	positive
Remarks	Based on data from similar materials
Species	Mouse
Application Route	inhalation (dust/mist/fume)
Exposure time	105 weeks
Result	positive
Remarks	Based on data from similar materials
Carcinogenicity - Assess-	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
Species Application Route	: Oral
Exposure time Result	: 105 weeks
Result	: negative

Species

: Mouse



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	lication Route osure time ult	: : :	Oral 93 weeks negative	
Sus	productive toxicity pected of damaging ferti nponents:	lity. S	Suspected of dama	ging the unborn child.
	amisole hydrochloride:			
	cts on fertility	:	Species: Rat Application Route	-generation reproduction toxicity study e: Oral cant adverse effects were reported
Effe mer	ects on foetal develop- nt	:	Species: Rat Application Route	oxicity: NOAEL: 20 mg/kg body weight
			Species: Rabbit Application Route	oxicity: LOAEL: 40 mg/kg body weight
	productive toxicity - As- sment	:	Some evidence o animal experimer	f adverse effects on development, based on nts.
II Cot	oalt disodium ethylened	diami	inetetraacetate:	
	Effects on fertility		Test Type: Fertilit Species: Rat Application Route Result: positive	y/early embryonic development e: Ingestion on data from similar materials
			Species: Mouse Application Route Result: positive	xy/early embryonic development e: Ingestion on data from similar materials

Test Type: Fertility/early embryonic development Species: Rat



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			Result: positive	: inhalation (dust/mist/fume) on data from similar materials
Effec ment	ts on foetal develop-	:	Species: Rat Application Route Method: OECD T Result: negative	
Repression	oductive toxicity - As- nent	:	fertility, based on	f adverse effects on sexual function and animal experiments. on data from similar materials
Benz	yl alcohol:			
	ts 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
II Citric	c acid:			
	ts on foetal develop-	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study
II Sodii	um selenate:			
	ts 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
	nectin (combination of ts on fertility	ave :	rmectin B1a and a Test Type: Fertilit Species: Rat, mal	

Effects on fertility	:	Test Type: Fertility
		Species: Rat, male

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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Effe mer	cts on foetal develop- it	Result: Test Ty Species Applica Early E weight Result: : Test Ty Species Applica Genera Develop Result:	s: Rat tion Route mbryonic Fetotoxici pe: Embry s: Mouse tion Route I Toxicity comental T Cleft pala	eneration reproduction toxicity study c: Oral Development: NOAEL: 0.12 mg/kg body ty vo-foetal development c: Oral Maternal: NOAEL: 0.05 mg/kg body weight pxicity: NOAEL: 0.2 mg/kg body weight
		Species Applica Develop Result: survival	: Rabbit tion Route omental T Cleft pala	vo-foetal development e: Oral oxicity: LOAEL: 2 mg/kg body weight te, Teratogenic effects, Reduced embryonic e developmental effects were observed
		Species Applica Develop	tion Route	: Oral pxicity: LOAEL: 1.6 mg/kg body weight
	productive toxicity - As- sment	fertility,	based on	f adverse effects on sexual function and animal experiments., Some evidence of n development, based on animal experi-
Not	DT - single exposure classified based on avail	able informat	ion.	

Components:

Citric acid:

Assessment

: May cause respiratory irritation.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.



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Comr	oonents:			
	nisole hydrochloride: ht Organs		Blood, Testis	
	ssment	:		ge to organs through prolonged or repeated
Coba	It disodium ethylened	iam	inetetraacetate:	
	sure routes	:	inhalation (dust/n	nist/fume)
	t Organs	:	Respiratory Trac	
Asses	ssment	:		e significant health effects in animals at con- 12 mg/l/6h/d or less.
Rema	ırks	:		om similar materials
Expos	sure routes	:	Ingestion	
Targe	t Organs	:	Thyroid, Heart, B	
Asses	ssment	:		e significant health effects in animals at con- 0 to 100 mg/kg bw.
Rema	ırks	:		om similar materials
Sodiu	ım selenate:			
	sure routes	:	Ingestion	
Asses	ssment	:		e significant health effects in animals at con- mg/kg bw or less.
		ave		avermectin B1b) (ISO):
	sure routes	:	Ingestion	
	t Organs ssment	:	Central nervous s	to organs through prolonged or repeated
/ 0000	Sinon	•	exposure.	to organo through profonged of repeated
Repe	ated dose toxicity			
Comp	oonents:			
levan	nisole hydrochloride:			
Speci		:	Rat	
NOAE		:	2.5 mg/kg	
	cation Route sure time	:	Oral 18 Months	
	t Organs	:	Testis	
Speci	es	:	Dog	
LÕAE	Ľ	:	20 mg/kg	
	cation Route sure time	:	Oral 18 Months	
	t Organs	:	Blood	
Speci	es	:	Dog	



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	EL cation Route sure time	: 40 mg/kg : Oral : 3 Months
Speci LOAE Applic Expos Rema	L cation Route sure time arks es	 Rat > 10 mg/kg Ingestion 90 Days Based on data from similar materials Rat
	cation Route sure time od	 < 0.01 mg/l inhalation (dust/mist/fume) 13 Weeks OECD Test Guideline 413 Based on data from similar materials
	L cation Route sure time od	 Mouse < 0.01 mg/l inhalation (dust/mist/fume) 13 Weeks OECD Test Guideline 413 Based on data from similar materials
Speci NOAE Applic	EL cation Route sure time	 Rat 1.072 mg/l inhalation (dust/mist/fume) 28 Days OECD Test Guideline 412
Speci NOAE LOAE Applic	acid: es EL EL cation Route sure time	 Rat 4,000 mg/kg 8,000 mg/kg Ingestion 10 Days
Speci NOAE Applic		: Rat : 0.4 mg/kg : Ingestion : 13 Weeks
abam Speci NOAE	es	 avermectin B1a and avermectin B1b) (ISO): Rat 1.5 mg/kg

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Application Route Exposure time Target Organs Symptoms							
Expos	L ation Route ure time t Organs		4.0 mg/kg Oral				
Expos	L L ation Route ure time t Organs toms	 Dog 0.25 mg/kg 0.5 mg/kg Oral 53 Weeks Central nervo Tremors, weig mortality obset 	ht loss				
Expos		: Monkey : 1.0 mg/kg : Oral : 14 Weeks : Central nervo	us system				
Not cla	ation toxicity assified based on avail nation on other hazar						
Endo	crine disrupting prop	erties					
<u>Produ</u>	ict:						
Asses	sment	ered to have e	e/mixture does not contain components consid- endocrine disrupting properties according to e 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at or higher.				
Exper	ience with human ex	posure					
<u>Comp</u>	onents:						
levam Ingest	isole hydrochloride: ion	: Symptoms: Notension	ausea, Vomiting, Headache, Dizziness, hypo-				
Cobal	t disodium ethylened	liaminetetraacetate	::				
Inhala	tion		s: Respiratory system ed on data from similar materials				



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Ingestion		:	: Target Organs: Blood Remarks: Based on data from similar materials Target Organs: Heart Target Organs: Thyroid	
abamo	ectin (combination c	of ave	rmectin B1a and	avermectin B1b) (ISO):
Ingest	ion	:		cause, Tremors, Diarrhoea, central nervous Salivation, tearing

SECTION 12: Ecological information

12.1 Toxicity

Components:

levamisole hydrochloride:

Toxicity to fish	:	LC50 (Oryzias latipes (Japanese medaka)): 37.3 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 64 mg/l Exposure time: 48 h Method: OECD Test Guideline 202

Cobalt disodium ethylenediaminetetraacetate:

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to fish (Chronic tox- icity)	:	EC10: > 1 mg/l Exposure time: 34 d Species: Danio rerio (zebra fish) Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	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-Factor (Chronic aquatic toxicity)	:	1
Benzyl alcohol:		

Benzyl alcohol:



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	Toxicity to fish Toxicity to daphnia and other aquatic invertebrates		:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 460 mg/l s h
			:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity to algae/aquatic plants		:	EC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
á		to daphnia and other invertebrates (Chron- y)	:	NOEC: 51 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
	Citric ad	cid:			
	Toxicity		:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): > 100 mg/l s h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 24	agna (Water flea)): 1,535 mg/l ⊧h
	Sodium	selenate:			
	Toxicity	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	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-Facto icity)	r (Acute aquatic tox-	:	1	
	Toxicity	to microorganisms	:	EC10 (activated s Exposure time: 3 Method: OECD Te	h



ersion)	Revision Date: 06.04.2024	-	0S Number: 814140-00006	Date of last issue: 04.12.2023 Date of first issue: 12.07.2022	
Toxicity to fish (Chronic tox- icity)		:	NOEC: > 0.01 - 0.1 mg/l Exposure time: 258 d Species: Lepomis macrochirus (Bluegill sunfish) Remarks: Based on data from similar materials		
	<i>t</i> 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 Toxicity	•	ave :		a vermectin B1b) (ISO): hus mykiss (rainbow trout)): 3.2 μg/l δ h	
			LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 9.6 μg/l δ h	
			LC50 (Ictalurus pu Exposure time: 96	unctatus (channel catfish)): 24 µg/l ⊱h	
			LC50 (Cyprinus ca Exposure time: 96	arpio (Carp)): 42 µg/l ≩ h	
			LC50 (Cyprinodor Exposure time: 96	n variegatus (sheepshead minnow)): 15 μg/l δ h	
	v to daphnia and other invertebrates	:	EC50 (Americamy Exposure time: 96		
			EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.34 μg/l 3 h	
Toxicity plants	<i>r</i> to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): 100 2 h	
M-Fact icity)	or (Acute aquatic tox-	:	10,000		
Toxicity	v to microorganisms	:	EC50 : > 1,000 m Exposure time: 3 Test Type: Respir	ĥ	
Toxicity icity)	v to fish (Chronic tox-	:	NOEC: 0.52 µg/l Exposure time: 32 Species: Pimepha	2 d ales promelas (fathead minnow)	
	v to daphnia and other invertebrates (Chron-	:	NOEC: 0.03 µg/l Exposure time: 21	l d	

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ic toxic	city)		Species: Daphnia	a magna (Water flea)
			NOEC: 0.0035 µg Exposure time: 28 Species: Mysidop	
M-Fac toxicity	tor (Chronic aquatic /)	:	10,000	
12.2 Persis	stence and degradabi	lity		
<u>Comp</u>	onents:			
	/I alcohol: gradability	:	Result: Readily bi Biodegradation: 9 Exposure time: 14	92 - 96 %
Citric	acid:			
Biode	gradability	:	Result: Readily bi Biodegradation: 9 Exposure time: 28 Method: OECD T	97 %
abamo	ectin (combination of	ave	rmectin B1a and a	avermectin B1b) (ISO):
Stability in water		:	Hydrolysis: 50 %((< 12 h)
12.3 Bioac	cumulative potential			
Comp	onents:			
Cobal	t disodium ethylened	iam	inetetraacetate:	
	on coefficient: n- bl/water	:	log Pow: -3.86 Remarks: Calcula	ation
	r l alcohol: on coefficient: n- ol/water	:	log Pow: 1.05	
Citric	acid:			
Partitic	on coefficient: n- bl/water	:	log Pow: -1.72	
abamo	ectin (combination of	ave	rmectin B1a and a	avermectin B1b) (ISO):
Bioaco	cumulation	:	Bioconcentration	factor (BCF): 52
	on coefficient: n- bl/water	:	log Pow: 4	



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12.4 Mobility in soil

Components:

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

Distribution among environ- : log Koc: > 3.6 mental compartments

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

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.

12.7 Other adverse effects

No data available

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



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	MDG		:	UN 3082		
	ATA		:	UN 3082		
14.2 U	JN pro	oper shipping name				
A	DN		:	N.O.S. (abamectin (comb	ALLY HAZARDOUS SUBSTANCE, LIQUID, pination of avermectin B1a and avermectin It disodium ethylenediaminetetraacetate)	
А	D R		 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIC N.O.S. (abamectin (combination of avermectin B1a and averme B1b) (ISO), Cobalt disodium ethylenediaminetetraacetat 			
R	RID		 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQ N.O.S. (abamectin (combination of avermectin B1a and averme B1b) (ISO), Cobalt disodium ethylenediaminetetraacetate 			
II	MDG		:	 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQU N.O.S. (abamectin (combination of avermectin B1a and avermectin B1b) (ISO), Cobalt disodium ethylenediaminetetraacetate) 		
ΙΑΤΑ		:	Environmentally hazardous substance, liquid, n.o.s. (abamectin (combination of avermectin B1a and avermectin B1b) (ISO), Cobalt disodium ethylenediaminetetraacetate)			
14.3 T	ransp	oort hazard class(es)				
				Class	Subsidiary risks	
А	DN		:	9		
A	DR			9		
R			:	9		
IN	MDG		:	9		
	ATA		:	9		
		ig group	•			
		-3 3·P				
P C H	lassifi	g group ication Code I Identification Number	:	III M6 90 9		
P C H La	lassifi lazard abels	g group ication Code I Identification Number restriction code	:	III M6 90 9 (-)		



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	Classif	g group ication Code I Identification Number	: : :	III M6 90 9	
	IMDG Packin Labels EmS C		:	III 9 F-A, S-F	
	Packin aircraft Packin	g instruction (LQ) g group	:	964 Y964 III Miscellaneous	
	Packin ger airo Packin	g instruction (LQ) g group	:	964 Y964 III Miscellaneous	
14.5	5 Enviro	onmental hazards			
	ADN Enviroi	nmentally hazardous	:	yes	
	ADR Enviroi	nmentally hazardous	:	yes	
	RID Enviroi	nmentally hazardous	:	yes	
	IMDG Marine	pollutant	:	yes	
		Passenger) nmentally hazardous	:	yes	
		Cargo) nmentally hazardous	:	yes	
14.6	-	al precautions for use		uided herein are fo	prinformational purposes only and solely

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.



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SECTION 15: Regulatory information

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

ii e				
	REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of rest lowing entries sho Number on list 75	ould be considered:
			here according to in the regulation, use/purpose or th restriction. Please tions in correspon determine whether	nixture(s) are listed their appearance irrespective of their e conditions of the e refer to the condi- iding Regulation to er an entry is appli- ing on the market or
			If you intend to us tattoo ink, please dor.	
	REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable	
	Regulation (EC) No 1005/2009 on substances that deplete 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	
	REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable	
	Seveso III: Directive 2012/18/EU of the European Parliam major-accident hazards involving dangerous substances.		and of the Counci	l on the control of
	E1 ENVIRONMENTAL		Quantity 1	Quantity 2

E1	ENVIRONMENTAL	100 t	200 t
	HAZARDS		

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this pro-	duo	t are reported in the following inventories:
AICS	:	not determined

DSL :	not determined
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IECSC :		not determined				
A Chemica	n ical safety assessi Il Safety Assessmen	t has n	ot been carried ou	ıt.		
SECTION	16: Other inform	ation				
Other	information	:		nges have been made to the previous versio n the body of this document by two vertical		
Full te	ext of H-Statements	5				
H300			Fatal if swallowe	d		
H301		÷	Toxic if swallowe			
H302		:	Harmful if swallo	owed.		
H311		:	Toxic in contact	with skin.		
H315		:	Causes skin irrit			
H319		:	Causes serious	eye irritation.		
H330		:	Fatal if inhaled.			
H332		:		Harmful if inhaled.		
H334 : H335 :			gy or asthma symptoms or breathing difficul-			
		ties if inhaled.	rotory irritotion			
H341		:	May cause respi	using genetic defects.		
H351		:	Suspected of ca			
H361c	d			maging the unborn child.		
H361f		:	Suspected of da			
H361f	d	:		maging fertility. Suspected of damaging the		
H372		:	Causes damage exposure.	to organs through prolonged or repeated		
H372		:		to organs through prolonged or repeated		
H373		:		age to organs through prolonged or repeated		
H400		:	Very toxic to aqu			
H410		:	Very toxic to aqu	atic life with long lasting effects.		
H412		:	Harmful to aqua	tic life with long lasting effects.		
Full te	ext of other abbrevi	ations				
Acute	Tox.	•	Acute toxicity			
	ic Acute	:	Short-term (acut	e) aquatic hazard		
•	ic Chronic	:	: Long-term (chronic) aquatic hazard			
Carc.		:	: Carcinogenicity			
Eye Ir	rıt.	:	Eye irritation			
Muta. : Germ cell mutag						
			Reproductive to			
	Resp. Sens. : Skin Irrit. :		Respiratory sensitisation Skin irritation			
	RE	•	Specific target organ toxicity - repeated exposure			



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STOT SE IE OEL		:	Ireland. List of C	gan toxicity - single exposure hemical Agents and Carcinogens with Occu- e Limit Values - Code of Practice, Schedule 1	
IE OEL / OELV - 8 hrs (TWA)		:		oosure limit value (8-hour reference period)	

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergencv 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; 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 procedure:
Calculation method
Calculation method
Calculation method
Calculation method



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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 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.

IE / EN