

Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formulation

Version 1.7	Revision Date: 23.07.2024		DS Number: 812602-00008	Date of last issue: 20.03.2024 Date of first issue: 11.07.2022	
SECTION 1	I. PRODUCT AND CO	MP	ANY IDENTIFICAT	ION	
Produc	Product name		 Abamectin / Levamisole Hydrochloride / Oxfendazole / Coba Disodium EDTA / Sodium Selenate Formulation Alliance (A010249) COOPERS TRIFECTA TRIPLE ACTIVE DRENCH FOR SHEEP AND CATTLE MINERALISED (67327) 		
Other means of identification		:			
Manuf	acturer or supplier's o	deta	ails		
Compa Addres	any name of supplier ss		MSD 126 E. Lincoln Av Rahway, New Jei	enue sey U.S.A. 07065	
	one ency telephone address	ne : 908-740-4000 icy telephone : 1-908-423-6000			
Recon	nmended use of the c	hen	nical and restriction	ons on use	
	nmended use ctions on use	:	Veterinary produce Not applicable	xt	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification	۱
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Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 5
Respiratory sensitization	:	Category 1
Germ cell mutagenicity	:	Category 2
Carcinogenicity	:	Category 2
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - repeated exposure	:	Category 1 (Respiratory Tract, Thyroid, Heart, Blood)
Specific target organ toxicity - repeated exposure	:	Category 2 (Liver, Testis)
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Blood, Testis)

GHS label elements



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Hazaı	rd pictograms		1
Signa	l Word	: Danger	•
Hazaı	rd Statements	H334 May caus culties if inhaled H341 Suspected H351 Suspected H360FD May da H372 Causes da Heart, Blood) th H373 May caus longed or repea H373 May caus	armful if inhaled. e allergy or asthma symptoms or breathing dif l. d of causing genetic defects. d of causing cancer. amage fertility. May damage the unborn child. amage to organs (Respiratory Tract, Thyroid, rough prolonged or repeated exposure. e damage to organs (Liver, Testis) through pro
Preca	utionary Statements	P202 Do not ha and understood P260 Do not bre P264 Wash skir P270 Do not ea P280 Wear prot face protection.	ecial instructions before use. ndle until all safety precautions have been rea eathe mist or vapors. n thoroughly after handling. t, drink or smoke when using this product. ective gloves/ protective clothing/ eye protection.
		Response: P301 + P312 + CENTER or doc P304 + P340 IF keep comfortabl P308 + P313 IF attention. P342 + P311 If	P330 IF SWALLOWED: Call a POISON tor/ physician if you feel unwell. Rinse mouth. INHALED: Remove person to fresh air and
		Storage: P405 Store lock	ed up.
		Disposal:	f contents/ container to an approved waste dis

None known.



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Levamisole hydrochloride	16595-80-5	>= 5 -< 10
Cobalt disodium ethylenediaminetetraacetate	15137-09-4	>= 1 -< 5
oxfendazole	53716-50-0	>= 1 -< 5
Benzyl alcohol	100-51-6	>= 1 -< 5
Citric acid	77-92-9	>= 1 -< 5
Polyethylene glycol stearate	9004-99-3	>= 1 -< 5
Sodium selenate	13410-01-0	>= 0.1 -< 1
abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	71751-41-2	>= 0.1 -< 0.5

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical
If inhaled	:	advice. 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	:	· · ·
Most important symptoms and effects, both acute and delayed	:	Harmful if swallowed. May be harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing genetic defects. Suspected of causing cancer.
		May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome).
Protection of first-aiders	:	First Aid responders should pay attention to self-protection,



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Notes to physician		:	and use the recommended personal protective equipmentwhen the potential for exposure exists (see section 8).Treat symptomatically and supportively.		
SECTION 5. FIRE-FIGHTING ME			JRES		
Suitable extinguishing media		:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical		
Unsuit media	Unsuitable extinguishing		None known.		
	Specific hazards during fire		Exposure to com	pustion products may be a hazard to health.	
	dous combustion prod-	:	Carbon oxides Cobalt compound Nitrogen oxides (Metal oxides		
Specif ods	Specific extinguishing meth- ods		Use extinguishing measures that are appropriate to local or cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to so. Evacuate area.		
	al protective equipment fighters	:	In the event of fire	e, wear self-contained breathing apparatus. tective equipment.	

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
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.
Methods and materials for : containment and cleaning up	Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items



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		determine which Sections 13 and certain local or r	e cleanup of releases. You will need to n regulations are applicable. I 15 of this SDS provide information regarding national requirements.
	7. HANDLING AND ST		
Tech	nical measures		g measures under EXPOSURE RSONAL PROTECTION section.
Local	I/Total ventilation		ilation is unavailable, use with local exhaust
Advic	e on safe handling	: Do not get on sl Do not breathe Do not swallow. Avoid contact w Wash skin thoro Handle in accor practice, based assessment Keep container Already sensitiz to asthma, aller should consult t respiratory irrita Do not eat, drint	mist or vapors. ith eyes. bughly after handling. dance with good industrial hygiene and safety on the results of the workplace exposure
Hygie	ene measures	: If exposure to cl flushing system place. When using do Wash contamin The effective op engineering con appropriate deg	hemical is likely during typical use, provide eye s and safety showers close to the working not eat, drink or smoke. ated clothing before re-use. beration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, he monitoring, medical surveillance and the rative controls.
Cond	litions for safe storage	: Keep in properly Store locked up Keep tightly clos	y labeled containers. sed.
Mate	rials to avoid	: Do not store wit Strong oxidizing	bstances and mixtures



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis			
		exposure)	concentration				
Levamisole hydrochloride	16595-80-5	TWA	20 µg/m3 (OEB 3)	Internal			
	Further information: Skin						
		Wipe limit	200 µg/100 cm ²	Internal			
oxfendazole	53716-50-0	TWA	40 µg/m3 (OEB 3)	Internal			
		Wipe limit	400 µg/100 cm ²	Internal			
Polyethylene glycol stearate	9004-99-3	VLE-PPT	10 mg/m ³	NOM-010- STPS-2014			
		TWA (Inhalable particulate matter)	10 mg/m ³	ACGIH			
		TWA (Respirable particulate matter)	3 mg/m³	ACGIH			
Sodium selenate	13410-01-0	TWA	20 µg/m3 (OEB 3)	Internal			
		Wipe limit	200 µg/100 cm ²	Internal			
		VLE-PPT	0.2 mg/m ³ (selenium)	NOM-010- STPS-2014			
		TWA	0.2 mg/m ³ (selenium)	ACGIH			
abamectin (combination of avermectin B1a and avermec- tin B1b) (ISO)	71751-41-2	TWA	15 µg/m3 (OEB 3)	Internal			
		Wipe limit	150 µg/100 cm ²	Internal			

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
Respiratory protection:If adequate local exhaust ventilation is not available or

Respiratory protection	:	If adequate local exhaust ventilation is not available or
		exposure assessment demonstrates exposures outside the
		recommended guidelines, use respiratory protection.
Filter type	:	Combined particulates and organic vapor type
Hand protection		



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Ма	aterial	: Chemical-resist	ant gloves		
Remarks Eye protection		If the work envir mists or aeroso Wear a faceshie	e gloving. sses with side shields or goggles. ronment or activity involves dusty conditions, ls, wear the appropriate goggles. eld or other full face protection if there is a ect contact to the face with dusts, mists, or		
Skin and body protection		Additional body task being perfo disposable suits Use appropriate	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution, suspension
Color	:	pink, to, purple
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	3.4 - 4.4 (20 °C)
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	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
Vapor pressure	:	No data available
Relative vapor density	:	No data available



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Re	ative density	: 1.05 - 1.08	
De	nsity	: No data available	
	ubility(ies) Water solubility	: No data available	
	tition coefficient: n- anol/water	: Not applicable	
	oignition temperature	: No data available	
De	composition temperature	: No data available	
	cosity Viscosity, kinematic	: 770 - 5000 mm²/s (2	20 °C)
Exp	plosive properties	: Not explosive	
Ox	dizing properties	: The substance or mize	xture is not classified as oxidizing.
Мо	lecular weight	: No data available	
	ticle characteristics ticle size	: Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products		None known. Oxidizing agents No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Harmful if swallowed. May be harmful if inhaled.

Product:



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	Acute oral toxicity		:	Acute toxicity estimate: 980.32 mg/kg Method: Calculation method		
	Acute inhalation toxicity		:	Acute toxicity estimate: 7.16 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method		
	Acute dermal toxicity		:	Acute toxicity esti Method: Calculati	mate: > 5,000 mg/kg on method	
	Compo	onents:				
		isole hydrochloride:				
	Acute o	oral toxicity	:	LD50 (Rat): 180 n		
				LD50 (Mouse): 22		
				LD50 (Rabbit): 45	0.0	
	Acute ir	nhalation toxicity	:	Remarks: No data	a available	
	Acute d	lermal toxicity	:	Remarks: No data	a available	
	Cobalt	disodium ethylenedi	ami	netetraacetate:		
	Acute o	oral toxicity	:	LD50 (Rat): > 2,0 Remarks: Based (00 mg/kg on data from similar materials	
	oxfend	azole:				
	Acute o	oral toxicity	:	LD50 (Rat): > 6,0	00 mg/kg	
				LD50 (Dog): 1,60	0 mg/kg	
				LD50 (sheep): 25	0 mg/kg	
	Benzyl	alcohol:				
	Acute o	oral toxicity	:	LD50 (Rat): 1,620) mg/kg	
	Acute ir	nhalation toxicity	:	LC50 (Rat): > 4.1 Exposure time: 4 Test atmosphere: Method: OECD Te	h dust/mist	
	Citric a					
	Acute o	oral toxicity	:	LD50 (Mouse): 5,	400 mg/kg	
	Acute d	lermal toxicity	:	LD50 (Rat): > 2,00 Method: OECD To		



Assessment: The substance or mixture has no acute de toxicity Polyethylene glycol stearate:
Polyethylene glycol stearate:
Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Sodium selenate:
Acute oral toxicity : LD50 (Rat): > 5 - 50 mg/kg Remarks: Based on data from similar materials
Acute inhalation toxicity : LC50 (Rat): > 0.052 - 0.51 mg/l
Exposure time: 4 h Test atmosphere: dust/mist
Method: OECD Test Guideline 403
abamectin (combination of avermectin B1a and avermectin B1b) (ISO):
Acute oral toxicity : LD50 (Rat): 24 mg/kg
LD50 (Mouse): 10 mg/kg
LDLo (Monkey): 24 mg/kg Symptoms: Dilatation of the pupil
Acute inhalation toxicity : LC50 (Rat): 0.023 mg/l
Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity : LD50 (Rat): 330 mg/kg
LD50 (Rabbit): 2,000 mg/kg
Skin corrosion/irritation
Not classified based on available information.
<u>Components:</u>
Levamisole hydrochloride:
Remarks : No data available
Cobalt disodium ethylenediaminetetraacetate:
Species : Rabbit
Method : OECD Test Guideline 404
Result:No skin irritationRemarks:Based on data from similar materials
oxfendazole:
Species : Rabbit
Result : No skin irritation
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Benzy	yl alcohol:			
Specie	es	: Rabbit		
Metho		: OECD Test Gu	ideline 404	
Result	t	: No skin irritatio	n	
Citric	acid:			
Specie	es	: Rabbit		
Metho	bd	: OECD Test Gu		
Result	t	: No skin irritatio	n	
Polye	thylene glycol stea	rate:		
Specie	es	: Rabbit		
Metho		: Draize Test		
Result	t	: No skin irritatio	n	
Sodiu	ım selenate:			
Specie	es	: reconstructed I	numan epidermis (RhE)	
Metho	bd	: OECD Test Gu	lideline 431	
Specie	es	: reconstructed I	numan epidermis (RhE)	
Metho		: OECD Test Gu		
Result	t	: Skin irritation	: Skin irritation	
abam	ectin (combination	of avermectin B1a an	d avermectin B1b) (ISO):	
Specie	es	: Rabbit		
Result		: No skin irritatio	n	
Serio	us eye damage/eye	irritation		
Not cla	assified based on av	ailable information.		
Comp	oonents:			
	nisole hydrochlorid			
Rema	Irks	: No data availal	DIE	
Coba	It disodium ethylen	ediaminetetraacetate:	:	
	~~	: Rabbit		
Specie				
Result	t	: No eye irritatio		
	t		n from similar materials	
Result Rema	t			
Result Rema	t urks I dazole: es		from similar materials	



sion	Revision Date: 23.07.2024	SDS Number: 10812602-00008	Date of last issue: 20.03.2024 Date of first issue: 11.07.2022
Benzy	yl alcohol:		
Speci	es	: Rabbit	
Result			s, reversing within 21 days
Metho	bd	: OECD Test Gu	ideline 405
Citric	acid:		
Speci	es	: Rabbit	
Resul			s, reversing within 21 days
Metho	bd	: OECD Test Gu	ideline 405
Polye	thylene glycol stea	rate:	
Speci	es	: Rabbit	
Resul	t	: No eye irritatior	1
Metho	bd	: Draize Test	
Sodiu	ım selenate:		
Speci	es	: Bovine cornea	
Metho	bd	: OECD Test Gu	ideline 437
Resul	t	: No eye irritatior	1
aham	ectin (combination	of avermectin B1a and	d avermectin B1b) (ISO):
Speci		: Rabbit	
Resul		: Mild eye irritatio	on
		•••	
-	iratory or skin sens	itization	
-	sensitization assified based on av	ailable information.	
Respi	iratory sensitization	l	
May c	ause allergy or asthr	na symptoms or breathi	ing difficulties if inhaled.
Comp	<u>oonents:</u>		
	misole hydrochlorid		
Rema	ırks	: No data availab	ble
Coba	It disodium ethylen	ediaminetetraacetate:	
Route	es of exposure	: inhalation (dust	/mist/fume)
Speci	es	: Humans	
Resul		: positive	
Rema	irks	: Based on data	from similar materials
•	ssment	· Probability or ev	vidence of low to moderate respiratory



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	Benzyl alcohol:Test TypeRoutes of exposureSpeciesMethodResult		 Maximization Test Skin contact Guinea pig OECD Test Guideline 406 negative 				
	Test Ty	of exposure	e: : :	 Open epicutaneous test Skin contact Guinea pig negative 			
	Test Ty	•	ave :	rmectin B1a and a Maximization Tes Skin contact Not a skin sensitiz			
	Germ cell mutagenicity Suspected of causing genetic defects.						
	Components:						
		i sole hydrochloride: xicity in vitro	:	Result: negative	ial reverse mutation assay (AMES) hosome aberration test in vitro		
	Cobalt	disodium ethylenedi	ami	netetraacetate:			
	Genoto	xicity in vitro	:	Test Type: Bacter Method: OECD To Result: negative Remarks: Based of Test Type: In vitro Method: OECD To Result: positive Remarks: Based of Test Type: Chrom Method: OECD To Result: positive Remarks: Based of	on data from similar materials o mammalian cell gene mutation test est Guideline 476 on data from similar materials nosome aberration test in vitro est Guideline 473 on data from similar materials		
	Genoto	xicity in vivo	:	Test Type: Micror Species: Mouse Application Route	nucleus test : Intraperitoneal injection		



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		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 tes Species: Mouse Application Route: Ingestion Result: positive Remarks: Based on data from similar				
	cell mutagenicity - ssment	: Positive result(s) from in vivo mammal genicity tests. Remarks: Based on data from similar				
oxfer	idazole:					
Geno	toxicity in vitro	Test Type: Bacterial reverse mutation assay (AMES) Result: negative				
Geno	toxicity in vivo	: Test Type: Mutagenicity (in vivo mammalian bone-m cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Oral Result: positive				
Benz	yl alcohol:					
	toxicity in vitro	: Test Type: Bacterial reverse mutation Result: negative	assay (AMES)			
Geno	toxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus te cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative 				
Citric	acid:					
Geno	toxicity in vitro	: Test Type: Bacterial reverse mutation Result: negative	assay (AMES)			
		Test Type: in vitro micronucleus test Result: positive				
		Test Type: Bacterial reverse mutation Result: negative	assay (AMES)			



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	Genotoxicity in vivo :			enicity (in vivo mammalian bone-marrow chromosomal analysis) : Ingestion		
	Polyet	hylene glycol stearate	e:			
Genotoxicity in vitro : Test Type: Bacterial reverse mutation Result: negative				ial reverse mutation assay (AMES)		
	Sodiur	n selenate:				
	Genoto	oxicity in vitro				
	abame	ectin (combination of	avei	mectin B1a and a	vermectin B1b) (ISO):	
		oxicity in vitro	:		ial reverse mutation assay (AMES)	
					o mammalian cell gene mutation test nese hamster lung cells	
				Test Type: Alkalin Result: negative	e elution assay	
	Genoto	oxicity in vivo	:		enicity (in vivo mammalian bone-marrow chromosomal analysis)	
					: Intraperitoneal injection	
	Carcin	ogenicity				
	Suspec	cted of causing cancer.				
	Compo	onents:				
		isole hydrochloride:				
	Specie Applica	s ation Route	:	Mouse Oral		
	Exposi	ure time	:	2 Years		
	NOAEI Remar		:	80 mg/kg body we No significant adv	erse effects were reported	
	Specie	S	:	Rat		
		ation Route ure time	:	Oral 2 Years		
			•			



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NOA Rem		 40 mg/kg body weight No significant adverse effects were reported					
Coba	Cobalt disodium ethylenediaminetetraacetate:						
	cation Route isure time ilt	: Rat : inhalation (dust/m : 105 weeks : positive : Based on data fro	ist/fume) m similar materials				
	cation Route Isure time Ilt	 Mouse inhalation (dust/mist/fume) 105 weeks positive Based on data from similar materials 					
Carcinogenicity - Assess- ment : Limited evidence of carcinogenicity Remarks: Based on data from simil		of carcinogenicity in animal studies on data from similar materials					
Spec Appli Expo Symp Targo Spec Appli Expo Symp	cation Route sure time otoms et Organs	: Rat : Oral : 1 Years : No adverse effects : Liver : Rat : Oral : 2 Years : No adverse effects : Liver					
Spec Appli	cation Route sure time od	: Mouse : Ingestion : 103 weeks : OECD Test Guide : negative	line 451				
Spec Appli	ies cation Route sure time llt	of avermectin B1a and a : Rat : Oral : 105 weeks : negative : Mouse	vermectin B1b) (ISO):				
Appli	cation Route sure time	: Oral : 93 weeks : negative					



/ersion .7	Revision Date: 23.07.2024	SDS Number: 10812602-00008	Date of last issue: 20.03.2024 Date of first issue: 11.07.2022
Mayo	oductive toxicity damage fertility. May dar ponents:	nage the unborn ch	ild.
Leva	misole hydrochloride: ts on fertility	Species: Rat Application Ro	ree-generation reproduction toxicity study ute: Oral nificant adverse effects were reported
Effect	ts on fetal development	Species: Rat Application Ro Developmenta Result: Fetoto Test Type: Em Species: Rabb Application Ro	I Toxicity: NOAEL: 20 mg/kg body weight kicity. bryo-fetal development it ute: Oral I Toxicity: LOAEL: 40 mg/kg body weight
Repro sessr	oductive toxicity - As- nent	: Some evidenc animal experin	e of adverse effects on development, based on nents.
	It disodium ethylenedi ts on fertility	: Test Type: Fer Species: Rat Application Ro Result: positive Remarks: Bas Test Type: Fer Species: Mous Application Ro Result: positive	tility/early embryonic development ute: Ingestion e ed on data from similar materials tility/early embryonic development se ute: Ingestion
		Species: Mous Application Ro Result: positive Remarks: Base Test Type: Fer Species: Rat Application Ro Result: positive	ute: inhalation (dust/mist/fume) e ed on data from similar materials tility/early embryonic development ute: inhalation (dust/mist/fume)



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Effe	cts on fetal development	:	Species: Rat Application Route Method: OECD T Result: negative	
-	roductive toxicity - As- sment	:	fertility, based on	f adverse effects on sexual function and animal experiments. on data from similar materials
ovf	endazole:			
	endazole: cts on fertility	:	Species: Rat, mal Application Route Fertility: NOAEL: Target Organs: To Result: Effects on Test Type: Two-g Species: Rat Application Route	 : Oral 17 mg/kg body weight estes i fertility. eneration reproduction toxicity study :: Oral 0.9 mg/kg body weight ver
				e: Oral Treatment: 1 Months 750 mg/kg body weight estes
Effe	cts on fetal development	:	Species: Rat Application Route	oxicity: NOAEL: 10 mg/kg body weight
			Species: Rat Developmental To	vo-fetal development oxicity: NOAEL: 10 mg/kg body weight Embryo-fetal toxicity.
			Species: Mouse Application Route Developmental To	vo-fetal development e: Oral oxicity: NOAEL: 108 mg/kg body weight Embryo-fetal toxicity., Fetal abnormalities.



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	productive toxicity - As- sment	:	Species: Rabbit Application Route Developmental T Clear evidence or fertility, based on	yo-fetal development e: Oral oxicity: NOAEL: 0.625 mg/kg body weight f adverse effects on sexual function and animal experiments., Clear evidence of n development, based on animal
Ве	nzyl alcohol:			
	ects on fertility	:	Species: Rat Application Route Result: negative	ty/early embryonic development e: Ingestion on data from similar materials
Eff	ects on fetal development	:	Test Type: Embry Species: Mouse Application Route Result: negative	yo-fetal development e: Ingestion
Cit	ric acid:			
Eff	ects on fetal development	:	Test Type: One- <u>c</u> Species: Rat Application Route Result: negative	generation reproduction toxicity study e: Ingestion
So	dium selenate:			
Eff	ects on fertility	:	Species: Rat Application Route Result: negative	generation reproduction toxicity study e: Ingestion on data from similar materials
Eff	ects on fetal development	:	Species: Mouse Application Route Result: negative	yo-fetal development e: Ingestion on data from similar materials
aba	amectin (combination of	ave	rmectin B1a and	avermectin B1b) (ISO):
	ects on fertility	:	Test Type: Fertilit Species: Rat, ma Application Route Result: Effects or	ty le ∋: Oral
			Test Type: Two-g	generation reproduction toxicity study



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				Species: Rat Application Route Early Embryonic I weight Result: Fetotoxici	Development: NOAEL: 0.12 mg/kg body
Ef	ffects	on fetal development	:	Species: Mouse Application Route General Toxicity I Developmental To Result: Cleft pala	Maternal: NOAEL: 0.05 mg/kg body weight oxicity: NOAEL: 0.2 mg/kg body weight
				Species: Rabbit Application Route Developmental To Result: Cleft palat survival	ro-fetal development :: Oral oxicity: LOAEL: 2 mg/kg body weight te, Teratogenic effects., Reduced embryonic e developmental effects were observed
				Test Type: Develor Species: Rat Application Route Developmental To Result: Teratoger	: Oral pxicity: LOAEL: 1.6 mg/kg body weight
	eprod essme	uctive toxicity - As- ent	:	fertility, based on	f adverse effects on sexual function and animal experiments., Some evidence of n development, based on animal

STOT-single exposure

Not classified based on available information.

Components:

Citric acid:

Assessment

: May cause respiratory irritation.

STOT-repeated exposure

Causes damage to organs (Respiratory Tract, Thyroid, Heart, Blood) through prolonged or repeated exposure.

May cause damage to organs (Liver, Testis) through prolonged or repeated exposure. May cause damage to organs (Blood, Testis) through prolonged or repeated exposure if swallowed.



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	<u>Comp</u>	onents:			
	Levam	isole hydrochloride:			
	Target Assess	Organs sment	:	Blood, Testis May cause damag exposure.	ge to organs through prolonged or repeated
	Cobalt	disodium ethylenedi	ami	netetraacetate:	
		of exposure	:	inhalation (dust/m	ist/fume)
		Organs	:	Respiratory Tract	
	Assess	sment			e significant health effects in animals at con- 2 mg/l/6h/d or less.
	Remar	ks	:		m similar materials
	Routes	of exposure	:	Ingestion	
		Organs	:	Thyroid, Heart, Bl	
	Assess	sment	:	Shown to produce	e significant health effects in animals at con- to 100 mg/kg bw.
	Remar	ks	:		m similar materials
	oxfenc	lazole:			
	Routes	of exposure	:	Oral	
	•	Organs	:	Liver, Testis	
	Assess	sment	:	May cause damage exposure.	ge to organs through prolonged or repeated
	Sodiur	n selenate:			
		of exposure	:	Ingestion	
	Assess	sment	:	Shown to produce centrations of 10	e significant health effects in animals at con- mg/kg bw or less.
	abame	ectin (combination of a	ave	rmectin B1a and a	avermectin B1b) (ISO):
		of exposure	:	Ingestion	
	Target Assess	Organs sment	:	Central nervous s Causes damage t exposure.	ystem o organs through prolonged or repeated
	Repea	ted dose toxicity			
	Compo	onents:			
	Levam	isole hydrochloride:			
	Specie	S	:	Rat	
	NOAEI		:	2.5 mg/kg	
		ation Route ure time	÷	Oral 18 Months	
		Organs	÷	Testis	
	Specie	s	:	Dog	



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LOAEL	_	: 20 mg/kg	
-	ation Route	: Oral	
	ure time	: 18 Months	
	Organs	: Blood	
Specie		: Dog	
LOAEL		: 40 mg/kg	
	ation Route	: Oral	
Exposi	ure time	: 3 Months	
Cobalt	disodium ethylen	ediaminetetraacetate	::
Specie	-	: Rat	
LÖAEL		: > 10 mg/kg	
Applica	ation Route	: Ingestion	
	ure time	: 90 Days	
Remar	ks	: Based on data	a from similar materials
Specie		: Rat	
LOAEL		: < 0.01 mg/l	
	ation Route	: inhalation (due	st/mist/fume)
	ure time	: 13 Weeks : OECD Test G	uideline 112
Methoo Remar			a from similar materials
Reman	KS	. Dased on data	a nom similar materials
Specie		: Mouse	
LOAEL		: < 0.01 mg/l	
	ation Route	: inhalation (due	st/mist/fume)
Exposi Method	ure time	: 13 Weeks : OECD Test G	uideline 412
Remar			a from similar materials
Remai	NO	. Dased on data	
oxfend	lazole:		
Specie		: Rat	
NOAEI		: 11 mg/kg	
	ation Route	: Oral	
	ure time	: 2 Weeks	
Target	Organs	: Blood, Liver, 7	estis
Specie		: Rat	
NOAEL		: 3.8 mg/kg	
	ation Route	: Oral	
	ure time	: 3 Months	
rarget	Organs	: Liver, Testis	
Specie NOAEI		: Mouse	
	Lation Route	: 750 mg/kg : Oral	
	ure time	: 1 Months	
	Organs	: Liver	
Specie	0	: Mouse	



Version 1.7	Revision Date: 23.07.2024	SDS Number: 10812602-00008	Date of last issue: 20.03.2024 Date of first issue: 11.07.2022
Expo	AEL lication Route osure time let Organs	: 37.5 mg/kg : Oral : 3 Months : Liver	
Expo		: Dog : 6 mg/kg : Oral : 1 Months : No significant ac	lverse effects were reported
Expo		: Dog : 11 mg/kg : Oral : 2 Weeks : Lymph nodes, th	lymus gland
Expo		: Dog : 13.5 mg/kg : Oral : 12 Months : Liver	
Ben	zyl alcohol:		
	AEL ication Route osure time	: Rat : 1.072 mg/l : inhalation (dust/i : 28 Days : OECD Test Guid	
Citri	c acid:		
	NEL .	: Rat : 4,000 mg/kg : 8,000 mg/kg : Ingestion : 10 Days	
Sod	ium selenate:		
		: Rat : 0.4 mg/kg : Ingestion : 13 Weeks	
abaı	mectin (combination of	avermectin B1a and	avermectin B1b) (ISO):
Expo		: Rat : 1.5 mg/kg : Oral : 24 Months : Central nervous	system



rsion	Revision Date: 23.07.2024	SDS Number: 10812602-00008	Date of last issue: 20.03.2024 Date of first issue: 11.07.2022
Symp	otoms	: Tremors, ataxia	
Expo Targe		: Mouse : 4.0 mg/kg : Oral : 24 Months : Central nervous : Tremors, ataxia	system
Expo Targe	EL EL cation Route sure time et Organs otoms	: Dog : 0.25 mg/kg : 0.5 mg/kg : Oral : 53 Weeks : Central nervous : Tremors, weight : mortality observe	loss
Expo		: Monkey : 1.0 mg/kg : Oral : 14 Weeks : Central nervous	system
•	ration toxicity		
	lassified based on ava		
-	rience with human e	exposure	
	ponents:		
	misole hydrochlorid		
Inges	stion	: Symptoms: Naus tension	sea, Vomiting, Headache, Dizziness, hypo
Coba	It disodium ethylene	ediaminetetraacetate:	
Inhala	ation		Respiratory system
Inges	tion	: Target Organs: I	l on data from similar materials Heart
abam	nectin (combination	of avermectin B1a and	avermectin B1b) (ISO):
		• • • • •	cause, Tremors, Diarrhea, central nervou



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SECTION 1	12. ECOLOGICAL INFO	ORN	ΙΑΤΙΟΝ	
Ecoto	xicity			
<u>Comp</u>	onents:			
	hisole hydrochloride: y to fish	:	LC50 (Oryzias lati Exposure time: 96 Method: OECD Te	
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Cobal	t disodium ethylenedi	ami	netetraacetate:	
	y to daphnia and other c invertebrates	:	Exposure time: 48 Method: OECD Te	
Toxicit plants	y to algae/aquatic	:	100 mg/l Exposure time: 72 Method: OECD Te	
Toxicit icity)	y to fish (Chronic tox-	:	Exposure time: 34	e (zebra fish)): > 1 mg/l l d on data from similar materials
	y to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 28 Method: OECD Te	
oxfen	dazole:			
Toxicit	y to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): > 2.7 mg/l 5 h
			LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 2.5 mg/l 5 h
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicit plants	y to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 4 ? h



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			Method: OECD T	est Guideline 201
			NOEC (Pseudoki mg/l Exposure time: 72 Method: OECD T	
	city to daphnia and other tic invertebrates (Chron- cicity)		NOEC (Daphnia r Exposure time: 2 Method: OECD T	
Benz	yl alcohol:			
Toxic	city to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 460 mg/l S h
	city to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
Toxic plant	city to algae/aquatic s	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD T	
			NOEC (Pseudoki mg/l Exposure time: 72 Method: OECD T	
	city to daphnia and other tic invertebrates (Chron- cicity)		NOEC (Daphnia r Exposure time: 2' Method: OECD T	
Citrie	c acid:			
Toxic	city to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): > 100 mg/l 5 h
	city to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 24	nagna (Water flea)): 1,535 mg/l 1 h
Poly	ethylene glycol stearate	e:		
-	city to fish	:	LC50 (Leuciscus Exposure time: 96 Method: DIN 384	
Toxic	city to microorganisms	:	EC10 (Bacteria): Exposure time: 16	

Sodium selenate:



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	Toxicity	r 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
	Toxicity icity)	to fish (Chronic tox-	:	mg/l Exposure time: 25	nacrochirus (Bluegill sunfish)): > 0.01 - 0.1 i8 d on data from similar materials
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: > 0.1 - 1 n Exposure time: 28 Remarks: Based o	
	Toxicity	to microorganisms	:	EC10 (activated s Exposure time: 3 Method: OECD Te	h
	ahama	atin (combination of		meetin D4e and a	vermentin B4b) (ISO)
	Toxicity	•	avei :		rvermectin B1b) (ISO): hus mykiss (rainbow trout)): 3.2 μg/l ε 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 δ h
				LC50 (Cyprinus ca Exposure time: 96	arpio (Carp)): 42 µg/l 5 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 (Pseudokiro mg/l	chneriella subcapitata (green algae)): 100



sion	Revision Date: 23.07.2024		S Number: 812602-00008	Date of last issue: 20.03.2024 Date of first issue: 11.07.2022
			Exposure time: 7	2 h
Toxicit icity)	ty to fish (Chronic tox-	:	NOEC (Pimepha Exposure time: 3	les promelas (fathead minnow)): 0.52 μg 2 d
	ty to daphnia and other c invertebrates (Chron-		NOEC (Daphnia Exposure time: 2	magna (Water flea)): 0.03 µg/l 1 d
	sity)		NOEC (Mysidops Exposure time: 2	sis bahia (opossum shrimp)): 0.0035 μg/l 8 d
Toxicit	ty to microorganisms	:	EC50: > 1,000 m Exposure time: 3 Test Type: Respi	ĥ
Persis	stence and degradabil	ity		
<u>Comp</u>	onents:			
oxfen	dazole:			
Stabili	ty in water	:	Hydrolysis: < 5 %	6(4 d)
Benzy	l alcohol:			
Biodeg	gradability	:	Result: Readily b Biodegradation: Exposure time: 1	92 - 96 %
Citric	acid:			
Biodeo	gradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	97 %
Polyet	thylene glycol stearate	e:		
Biodeç	gradability	:	Result: Readily b Biodegradation: Exposure time: 1 Method: OECD T	> 70 %
abame	ectin (combination of	ave	rmectin B1a and	avermectin B1b) (ISO):
Stabili	ty in water	:	Hydrolysis: 50 %	(< 12 h)
Bioac	cumulative potential			
<u>Comp</u>	onents:			
0 - 1 - 1	t disodium ethylenedi	ami	nototraacotato:	



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n-		Remarks: Calcu	lation
n-			
n-	-		
	:	log Pow: 1.95	
n-	:	log Pow: 1.05	
n-	:	log Pow: -1.72	
ation of a	ave	rmectin B1a and	l avermectin B1b) (ISO):
	:	Bioconcentratio	n factor (BCF): 52
n-	:	log Pow: 4	
environ- ts	:	log Koc: 3.2	
ation of a	ave	rmectin B1a and	l avermectin B1b) (ISO):
environ- ts	:	log Koc: > 3.6	
cts			
	DEF	ATIONS	
3	:		of waste into sewer. cordance with local regulations.
aging	:	Empty containe handling site for	rs should be taken to an approved waste recycling or disposal. specified: Dispose of as unused product.
ì	ging	ging :	ging : Empty contained handling site for

International Regulations

UNRTDG

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.



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	Class	a group	:	(abamectin (com B1b) (ISO), oxfen 9 III	bination of avermectin B1a and avermectin dazole)
	Labels	g group	:	9	
		nmentally hazardous	÷	yes	
		•			
	UN/ID		:	UN 3082	
	Proper	shipping name	:		nazardous substance, liquid, n.o.s. bination of avermectin B1a and avermectin dazole)
	Class		:	9	
		g group	:		
	Labels	a instruction (correc	÷	Miscellaneous 964	
	aircraft	g instruction (cargo	•	904	
		g instruction (passen-	:	964	
	Enviror	nmentally hazardous	:	yes	
	IMDG-	Code			
	UN nur		:	UN 3082	
	Proper	Proper shipping name		ENVIRONMENTA N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
					pination of avermectin B1a and avermectin dazole)
	Class		:	9	
		g group	:		
	Labels EmS C	ode	÷	: 9 : F-A, S-F	
		pollutant	÷	yes	
	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code				
	•	plicable for product as			
		stic regulation	0.001		
		0			
		02-SCT			
	UN nur Proper	nber shipping name	:	UN 3082 ENVIRONMENTA N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
				(abamectin (com B1b) (ISO), oxfen	bination of avermectin B1a and avermectin dazole)
	Class		:	9	
	Packin Labels	g group	:	III 9	

Special precautions for user

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.



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SECTION 15. REGULATORY INFORMATION

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

Federal Law for the control of chemical precursors, : Hydrochloric acid essential chemical products and machinery for producing capsules, tablets and pills.

The ingredients of this product are reported in the following inventories:

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

SECTION 16. OTHER INFORMATION

Revision Date Date format		23.07.2024 dd.mm.yyyy			
Full text of other abbreviation	Full text of other abbreviations				
ACGIH NOM-010-STPS-2014		USA. ACGIH Threshold Limit Values (TLV) Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting the Work Environment - Identification, Assessment and Con- trol - Appendix 1 Occupational Exposure Limits			
ACGIH / TWA NOM-010-STPS-2014 / VLE- PPT		8-hour, time-weighted average Time weighted average limit value			

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; 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: Nch - Chilean Norm: NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Develop-



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ment; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

MX / Z8