

Version 8.0	Revision Date: 06.07.2024		S Number: 0409-00025	Date of last issue: 06.04.2024 Date of first issue: 12.07.2016
Section 1	: Identification			
Prod	uct identifier	:	Fluazuron / Abar	nectin Formulation
Reco	ommended use of the ch	nemi	ical and restriction	ons on use
	mmended use rictions on use	:	Veterinary produ Not applicable	ct
Manu	ufacturer or supplier's d	etai	ls	
Com	bany	:	MSD	
Addre	ess	:	50 Tuas West Dr Singapore - Sing	
Telep	phone	:	+1-908-740-4000)
Emer	gency telephone number	:	65 6697 2111 (24	4/7/365)
E-ma	il address	:	EHSDATASTEW	/ARD@msd.com
Section 2	: Hazard identification			
Class	sification of the substar	nce	or mixture	
	mable liquids	:	Category 3	
Acute	e toxicity (Inhalation)	:	Category 4	
Skin	corrosion/irritation	:	Category 2	

Serious eye damage/eye irri- tation	:	Category 2
Skin sensitisation	:	Category 1
Germ cell mutagenicity	:	Category 2
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 2 (Central nervous system)
Short-term (acute) aquatic hazard	:	Category 1





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Long- hazar	term (chronic) aquatic d	:	Category 1	
	Label elements, includ rd pictograms	ling p	precautionary s	statements
Signa	ll word	:	Danger	• • •
Haza	rd statements	:	H315 Causes H317 May cau H319 Causes H332 Harmful H335 May cau H336 May cau H341 Suspect H360D May da H373 May cau through prolon	se an allergic skin reaction. serious eye irritation.
Preca	autionary statements	:	P202 Do not h and understoo P210 Keep aw and other igniti P233 Keep cor P241 Use expl ment. P242 Use non- P243 Take act P260 Do not b P264 Wash sk P271 Use only P272 Contamin the workplace. P273 Avoid rel P280 Wear prote tion/ face prote Response: P303 + P361 + Iy all contamina P304 + P340 + and keep comf doctor if you fe P305 + P351 +	 ay from heat, hot surfaces, sparks, open flame ion sources. No smoking. htainer tightly closed. losion-proof electrical/ ventilating/ lighting equip- sparking tools. ion to prevent static discharges. reathe mist or vapours. in thoroughly after handling. outdoors or in a well-ventilated area. nated work clothing should not be allowed out lease to the environment. bective gloves/ protective clothing/ eye protection/ hearing protection. P353 IF ON SKIN (or hair): Take off immedia ated clothing. Rinse skin with water. P312 IF INHALED: Remove person to fresh a fortable for breathing. Call a POISON CENTEF





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		easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medi attention. P333 + P313 If skin irritation or rash occurs: Get vice/ attention. P337 + P313 If eye irritation persists: Get medica tention. P391 Collect spillage.			
		Storage: P403 + P235 P405 Store lo	Store in a well-ventilated place. Keep cool. cked up.		
		Disposal: P501 Dispose disposal plant	e of contents/ container to an approved waste		
Othe	, herende which de v	at regult in algoritie			

Other hazards which do not result in classification

Vapours may form explosive mixture with air.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Propan-2-ol	67-63-0	>= 30 -< 50
N-Methyl-2-pyrrolidone	872-50-4	>= 30 -< 50
Fluazuron	86811-58-7	>= 2.5 -< 10
abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	71751-41-2	>= 1 -< 2.5
7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7- oxabicyclo[4.1.0]heptane-3-carboxylate	2386-87-0	>= 1 -< 10
2,6-Di-tert-butyl-p-cresol	128-37-0	>= 0.1 -< 0.25

Section 4: First-aid measures

Description of necessary first-aid measures						
General advice	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.					
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 plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention.					



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In case of eye contact If swallowed			 Wash clothing before reuse. Thoroughly clean shoes before reuse. In case of contact, immediately flush eyes with plenty of wate for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention. If swallowed, DO NOT induce vomiting. 			
				roughly with water. ing by mouth to an unconscious person.		
Most	important symptoms a	and	effects, both acu	ite and delayed		
Risks		:	Causes serious of Harmful if inhaled May cause respin May cause drows Suspected of cau May damage the May cause dama	lergic skin reaction. eye irritation. d. ratory irritation. siness or dizziness. using genetic defects.		
Prote	ction of first-aiders	:	exposure. 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).			
Indica Treatr	-	e me		nd special treatment needed ically and supportively.		
ection 5:	Fire-fighting measure	S				
Exting	uishing media					
Suitat	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (Dry chemical High volume wat	CO2)		
media			• •	• .		
-	ial hazards arising fror	n th				
fightin	fic hazards during fire- ng	•	fire. Flash back possi Vapours may for	d water stream as it may scatter and spread ble over considerable distance. m explosive mixtures with air. bustion products may be a hazard to health.		
Hazar ucts	rdous combustion prod-	:	Carbon oxides Nitrogen oxides Chlorine compou Fluorine compou	inds		



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Spec for fir	ial protective actions ial protective equipmen efighters ific extinguishing meth-	t : In the event of Use personal p : Use extinguish cumstances ar Use water spra	fire, wear self-contained breathing apparatus. protective equipment. ing measures that are appropriate to local cir- nd the surrounding environment. ay to cool unopened containers. maged containers from fire area if it is safe to do
Section 6	: Accidental release n	neasures	
	precautions, protective onal precautions	: Remove all so Use personal p Follow safe ha	mergency procedures urces of ignition. protective equipment. ndling advice (see section 7) and personal pro- ent recommendations (see section 8).
	ental precautions onmental precautions	Prevent further Prevent spread barriers). Retain and dis	to the environment. r leakage or spillage if safe to do so. ding over a wide area (e.g. by containment or of pose of contaminated wash water. es should be advised if significant spillages rained.
	and materials for conf ods for cleaning up	 Non-sparking t Soak up with ir Suppress (kno spray jet. For large spills ment to keep n be pumped, sto Clean up rema bent. Local or nation posal of this m employed in th mine which reg Sections 13 an 	ng up ools should be used. hert absorbent material. ck down) gases/vapours/mists with a water , provide dyking or other appropriate contain- naterial from spreading. If dyked material can ore recovered material in appropriate container. ining materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items e cleanup of releases. You will need to deter- gulations are applicable. In 15 of this SDS provide information regarding mational requirements.

Section 7: Handling and storage

Precautions for safe handling						
Technical measures :	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.					
Local/Total ventilation :	If sufficient ventilation is unavailable, use with local exhaust ventilation.					



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		ment.	n-proof electrical, ventilating and lighting equip-		
Advice on safe handling		 Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safe practice, based on the results of the workplace exposure as sessment Non-sparking tools should be used. Keep container tightly closed. Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory diseas should consult their physician regarding working with respiratory irritants or sensitisers. Keep away from heat, hot surfaces, sparks, open flames an other ignition sources. No smoking. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to 			
Hygiene measures		flushing syste place. When using of Contaminated workplace. Wash contam The effective engineering of appropriate of industrial hyg	o chemical is likely during typical use, provide eye ems and safety showers close to the working do not eat, drink or smoke. d work clothing should not be allowed out of the ninated clothing before re-use. operation of a facility should include review of controls, proper personal protective equipment, legowning and decontamination procedures, iene monitoring, medical surveillance and the istrative controls.		
Cond	ditions for safe storag	e, including any in	compatibilities		
	litions for safe storage	: Keep in proposition Store locked Keep tightly of Keep in a coor Store in accord	erly labelled containers. up.		
Mate	rials to avoid	: Do not store Self-reactive Organic pero Oxidizing age Flammable g Pyrophoric lic Pyrophoric so	with the following product types: substances and mixtures xides ents ases quids blids substances and mixtures		



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Section 8: Exposure controls/personal protection

Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Propan-2-ol	67-63-0	PEL (long term)	400 ppm 983 mg/m3	SG OEL
		PEL (short term)	500 ppm 1,230 mg/m3	SG OEL
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
Fluazuron	86811-58-7	TWA	60 µg/m3 (OEB 3)	Internal
		Wipe limit	600 µg/ 100cm2	Internal
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
2,6-Di-tert-butyl-p-cresol	128-37-0	PEL (long term)	10 mg/m3	SG OEL
		TWA (Inhal- able fraction and vapor)	2 mg/m3	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
N-Methyl-2-pyrrolidone	872-50-4	5-Hydroxy- N-methyl-2- pyrrolidone	Urine	End of shift (As soon as possible after exposure ceases)	100 mg/l	ACGIH BEI
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI

Appropriate engineering control 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.



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		are required	,
		Use explosic ment.	on-proof electrical, ventilating and lighting equip-
Indiv	idual protection mea	sures, such as per	sonal protective equipment (PPE)
Eye/fa	ace protection	If the work en mists or aero Wear a faces	glasses with side shields or goggles. Invironment or activity involves dusty conditions, pools, wear the appropriate goggles. Shield or other full face protection if there is a direct contact to the face with dusts, mists, or
Skin j	protection	Additional bo task being pe posable suits	n or laboratory coat. ody garments should be used based upon the erformed (e.g., sleevelets, apron, gauntlets, dis- s) to avoid exposed skin surfaces. iate degowning techniques to remove potentially d clothing.
Resp	iratory protection	: If adequate sure assessr	ocal exhaust ventilation is not available or expo- ment demonstrates exposures outside the rec- guidelines, use respiratory protection.
	ter type protection		articulates and organic vapour type
Ma	aterial	: Chemical-res	sistant gloves
Re	emarks		uble gloving. Take note that the product is flam- n may impact the selection of hand protection.
Section 9	: Physical and chem	ical properties	
Anne	arance	: liquid	

Appearance	•	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	28 °C

SAFETY DATA SHEET



Fluazuron / Abamectin Formulation

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Evap	oration rate	:	No data available	9
Flam	mability (solid, gas)	:	Not applicable	
Flam	mability (liquids)	:	Not applicable	
	r explosion limit / Upper nability limit	:	No data available)
	r explosion limit / Lower nability limit	:	No data available)
Vapo	ur pressure	:	No data available)
Relat	ive vapour density	:	No data available	9
Relat	ive density	:	No data available	9
Dens	ity	:	No data available	9
	ility(ies) ater solubility	:	No data available	9
	ion coefficient: n-	:	Not applicable	
	ol/water ignition temperature	:	No data available	9
Deco	mposition temperature	:	No data available	9
Visco Vi	sity scosity, kinematic	:	No data available	9
Explo	sive properties	:	Not explosive	
Oxidi	zing properties	:	The substance o	r mixture is not classified as oxidizing.
Moleo	cular weight	:	No data available	9
	cle characteristics cle 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. Flammable liquid and vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks.





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Incon Haza produ	npatible materials Irdous decomposition ucts	:	Oxidizing agen No hazardous o	s decomposition products are known.	
ction 1	1: Toxicological inform	atic	'n		
Inforr expo	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact		
	e toxicity nful if inhaled.				
Prod	uct:				
Acute	e oral toxicity	:	Acute toxicity es Method: Calcula	timate: > 2,000 mg/kg tion method	
Acute	e inhalation toxicity	:	Acute toxicity es Exposure time: Test atmosphere Method: Calcula	e: dust/mist	
Acute	Acute dermal toxicity		Acute toxicity es Method: Calcula	timate: > 2,000 mg/kg tion method	
<u>Com</u>	ponents:				
Prop	an-2-ol:				
Acute	e oral toxicity	:	LD50 (Rat): > 5,	000 mg/kg	
Acute	Acute inhalation toxicity		LC50 (Rat): > 25 Exposure time: Test atmosphere	3 h	
Acute	e dermal toxicity	:	LD50 (Rabbit): >	⊳ 5,000 mg/kg	
	ethyl-2-pyrrolidone:				
Acute	e oral toxicity	:	LD50 (Rat): 4,18	SU mg/kg	
Acute	e inhalation toxicity	 LC50 (Rat): > 5.1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 			
Acute	e dermal toxicity	:	LD50 (Rat): > 5,	000 mg/kg	
Flua	zuron:				
	e oral toxicity	:	LD50 (Rat): > 5, Method: OECD	000 mg/kg Test Guideline 401	

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Acute	inhalation toxicity	Exposure Test atm	at): > 6.0 mg/l e time: 4 h osphere: dust/mist OECD Test Guideline 403
Acute	e dermal toxicity		at): > 2,000 mg/kg OECD Test Guideline 402
aban	nectin (combination o	of avermectin E	1a and avermectin B1b) (ISO):
Acute	e oral toxicity	: LD50 (R	at): 24 mg/kg
		LD50 (M	ouse): 10 mg/kg
		,	onkey): 24 mg/kg ns: Dilatation of the pupil
Acute	inhalation toxicity	Exposure	at): 0.023 mg/l e time: 4 h osphere: dust/mist
Acute	e dermal toxicity	: LD50 (R	at): 330 mg/kg
		LD50 (R	abbit): 2,000 mg/kg
7-0x	abicyclo[4 1 0]hent-3	-vimethvi 7-ox	abicyclo[4.1.0]heptane-3-carboxylate:
	e oral toxicity	: LD50 (R	at, male): > 2,959 - 5,000 mg/kg OECD Test Guideline 401
Acute	inhalation toxicity	Exposure Test atm Method:	at): >= 5.19 mg/l e time: 4 h osphere: dust/mist OECD Test Guideline 436 nent: The substance or mixture has no acute inhala- city
Acute	e dermal toxicity	Method:	at): > 2,000 mg/kg OECD Test Guideline 402 nent: The substance or mixture has no acute dermal
2,6-D	i-tert-butyl-p-cresol:		
Acute	e oral toxicity		at): > 6,000 mg/kg OECD Test Guideline 401
Acute	e dermal toxicity	Method:	at): > 2,000 mg/kg OECD Test Guideline 402 nent: The substance or mixture has no acute dermal



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-	corrosion/irritation		
	oonents:		
-	an-2-ol:	. Dobbit	
Speci Resul		: Rabbit : No skin irritatic	n
Resul	thyl-2-pyrrolidone:	: Skin irritation	
Resul	L	. Skin initation	
Fluaz	uron:		
Speci		: Rabbit	videline 404
Metho Resul		: OECD Test Gu : No skin irritatio	
11000		. No onin intale	
			d avermectin B1b) (ISO):
Speci		: Rabbit	_
Resul	l	: No skin irritatio	MT
7-Oxa	abicyclo[4.1.0]hept-3	B-ylmethyl 7-oxabicyd	clo[4.1.0]heptane-3-carboxylate:
Speci		: Rabbit	
Metho Resul		: OECD Test Gu : No skin irritatio	
Nesu	l de la construcción de la constru	. NO SKITTITIALIC	MT
2,6-D	i-tert-butyl-p-cresol:		
Speci		: Rabbit	
Metho Resul		: OECD Test Gu : No skin irritatio	
Rema			from similar materials
	us eye damage/eye		
	es serious eye irritatio conents:	<i>и</i> п.	
	an-2-ol:		
Speci		: Rabbit	
Resul			es, reversing within 21 days
N-Mo	thyl-2-pyrrolidone:		
Speci		: Rabbit	
Resul			es, reversing within 21 days
Fluaz	uron:		
Speci		: Rabbit	



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Resu Metho		: Mild eye irrit : OECD Test	ation Guideline 405
abam	ectin (combination	of avermectin B1a	and avermectin B1b) (ISO):
Spec Resu		: Rabbit : Mild eye irrit	ation
7-Ox a Spec		-ylmethyl 7-oxabio : Rabbit	cyclo[4.1.0]heptane-3-carboxylate:
Resu Metho		: No eye irrita : OECD Test	tion Guideline 405
2,6-D Speci Resu Metho Rema	lt od	: Rabbit : No eye irrita : OECD Test	tion Guideline 405 ata from similar materials
Resp	iratory or skin sensi	tisation	
•••••	sensitisation cause an allergic skin	reaction.	
•	iratory sensitisation lassified based on ava		
Com	ponents:		
Test	sure routes ies od	: Buehler Tes : Skin contact : Guinea pig : OECD Test : negative	
	thyl-2-pyrrolidone:		
Test Expo Spec Metho Resu Rema	sure routes ies od It	: Skin contact : Mouse : OECD Test : negative	node assay (LLNA) Guideline 429 ata from similar materials
		: Skin contact : Guinea pig : negative	





rsion	Revision Date: 06.07.2024	SDS Number: 800409-00025	Date of last issue: 06.04.2024 Date of first issue: 12.07.2016
		<i></i>	
	•		and avermectin B1b) (ISO):
Test	i ype sure routes	: Maximisatio : Skin contact	
Resul		: Not a skin s	
11000			
			cyclo[4.1.0]heptane-3-carboxylate:
Test		: Maximisatio	
	sure routes	: Skin contact	
Speci Resul		: Guinea pig : positive	
Resul	it.	. positive	
Asses	ssment	: Probability c	or evidence of skin sensitisation in humans
2,6-D	i-tert-butyl-p-cresol	:	
Test		: Human repe	eat insult patch test (HRIPT)
	sure routes	: Skin contact	:
Speci		: Humans	
Resul	I	: negative	
Germ	cell mutagenicity		
Suspe	ected of causing gen	etic defects.	
<u>Com</u>	oonents:		
-	an-2-ol:		
Geno	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: I Result: nega	n vitro mammalian cell gene mutation test ative
0			
Geno	toxicity in vivo		Mammalian erythrocyte micronucleus test (in v
Geno	toxicity in vivo	cytogenetic Species: Mo	Mammalian erythrocyte micronucleus test (in v assay) ouse
Geno	toxicity in vivo	cytogenetic Species: Mo Application I	Mammalian erythrocyte micronucleus test (in v assay) ouse Route: Intraperitoneal injection
Geno	toxicity in vivo	cytogenetic Species: Mo	Mammalian erythrocyte micronucleus test (in v assay) ouse Route: Intraperitoneal injection
	toxicity in vivo thyl-2-pyrrolidone:	cytogenetic Species: Mo Application I	Mammalian erythrocyte micronucleus test (in v assay) ouse Route: Intraperitoneal injection
N-Me	·	cytogenetic Species: Mo Application I Result: nega	Mammalian erythrocyte micronucleus test (in v assay) ouse Route: Intraperitoneal injection ative
N-Me	thyl-2-pyrrolidone:	cytogenetic Species: Mc Application I Result: nega : Test Type: E	Mammalian erythrocyte micronucleus test (in v assay) buse Route: Intraperitoneal injection ative Bacterial reverse mutation assay (AMES) CD Test Guideline 471
N-Me	thyl-2-pyrrolidone:	 cytogenetic Species: Mo Application I Result: nega Test Type: E Method: OE Result: nega 	Mammalian erythrocyte micronucleus test (in v assay) buse Route: Intraperitoneal injection ative Bacterial reverse mutation assay (AMES) CD Test Guideline 471 ative
N-Me	thyl-2-pyrrolidone:	cytogenetic Species: Mo Application I Result: nega : Test Type: E Method: OE Result: nega Test Type: I	Mammalian erythrocyte micronucleus test (in v assay) buse Route: Intraperitoneal injection ative Bacterial reverse mutation assay (AMES) CD Test Guideline 471 ative n vitro mammalian cell gene mutation test
N-Me	thyl-2-pyrrolidone:	cytogenetic Species: Mo Application I Result: nega : Test Type: E Method: OE Result: nega Test Type: I Method: OE	Mammalian erythrocyte micronucleus test (in v assay) buse Route: Intraperitoneal injection ative Bacterial reverse mutation assay (AMES) CD Test Guideline 471 ative n vitro mammalian cell gene mutation test CD Test Guideline 476
N-Me	thyl-2-pyrrolidone:	cytogenetic Species: Mo Application I Result: nega : Test Type: E Method: OE Result: nega Test Type: I	Mammalian erythrocyte micronucleus test (in v assay) buse Route: Intraperitoneal injection ative Bacterial reverse mutation assay (AMES) CD Test Guideline 471 ative n vitro mammalian cell gene mutation test CD Test Guideline 476
N-Me	thyl-2-pyrrolidone:	cytogenetic Species: Mc Application I Result: nega : Test Type: E Method: OE Result: nega Test Type: I Method: OE Result: nega Test Type: E	Mammalian erythrocyte micronucleus test (in v assay) Duse Route: Intraperitoneal injection ative Bacterial reverse mutation assay (AMES) CD Test Guideline 471 ative n vitro mammalian cell gene mutation test CD Test Guideline 476 ative DNA damage and repair, unscheduled DNA sy
N-Me	thyl-2-pyrrolidone:	cytogenetic Species: Mc Application I Result: nega : Test Type: E Method: OE Result: nega Test Type: I Method: OE Result: nega Test Type: E	Mammalian erythrocyte micronucleus test (in v assay) Duse Route: Intraperitoneal injection ative Bacterial reverse mutation assay (AMES) CD Test Guideline 471 ative n vitro mammalian cell gene mutation test CD Test Guideline 476 ative DNA damage and repair, unscheduled DNA sy mmalian cells (in vitro)



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Geno	otoxicity in vivo	cytogenetic as Species: Mou Application Re	se bute: Ingestion D Test Guideline 474
		cytogenetic te Species: Ham Application Re	oute: Ingestion D Test Guideline 475
Flua	zuron:		
Geno	otoxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
		Test Type: DN Result: negati	
		Test Type: In Result: negati	vitro mammalian cell gene mutation test ve
Geno	otoxicity in vivo	: Test Type: Cy Species: Ham Result: equive	
aban	nectin (combination	of avermectin B1a a	nd avermectin B1b) (ISO):
	otoxicity in vitro		cterial reverse mutation assay (AMES)
			vitro mammalian cell gene mutation test Chinese hamster lung cells ve
		Test Type: All Result: negati	kaline elution assay ve
Geno	otoxicity in vivo	cytogenetic te Species: Mou	oute: Intraperitoneal injection
7-0x	abicyclo[4.1.0]hept-:	3-ylmethyl 7-oxabicy	clo[4.1.0]heptane-3-carboxylate:
	otoxicity in vitro	: Test Type: Ba	cterial reverse mutation assay (AMES) D Test Guideline 471



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		Result: posi Test Type: I malian cells Result: posi	n vitro sister chromatid exchange assay in mam- tive
			DNA damage and repair, unscheduled DNA syn- mmalian cells (in vitro) tive
Geno	toxicity in vivo	mammalian Species: Ra Application	Route: Ingestion CD Test Guideline 486
		Species: Mo	Route: Intraperitoneal injection
		say Species: Mo Application	Route: Ingestion CD Test Guideline 488
_	cell mutagenicity -	: Positive res genicity test	ult(s) from in vivo mammalian somatic cell muta- s.
2,6-D	i-tert-butyl-p-cresol:		
	toxicity in vitro	: Test Type: I Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: I Result: nega	n vitro mammalian cell gene mutation test ative
		Test Type: (Result: nega	Chromosome aberration test in vitro ative
Geno	toxicity in vivo	cytogenetic Species: Ra	Route: Ingestion

Carcinogenicity

Not classified based on available information.



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Com	oonents:		
	an-2-ol:		
Speci		: Rat	
	cation Route	: inhalation (vapo	our)
	sure time	: 104 weeks	()
Metho		: OECD Test Gui	ideline 451
Resu	lt	: negative	
N-Me	thyl-2-pyrrolidone:		
Speci		: Rat	
	cation Route	: Ingestion	
	sure time	: 2 Years	
Resu	IT	: negative	
Speci		: Rat	
	cation Route	: inhalation (vapo	our)
Expos	sure time	: 2 Years	
Resu	it.	: negative	
	uron:		
Speci		: Rat	
	cation Route	: Ingestion : 2 Years	
Expo: Metho	sure time	: OECD Test Gui	ideline 453
Resu		: negative	
Speci	es	: Mouse	
	cation Route	: Ingestion	
	sure time	: 2 Years	
Resu	It	: negative	
abam	ectin (combination	of avermectin B1a and	d avermectin B1b) (ISO):
Speci		: Rat	
	cation Route	: Oral	
Expos	sure time	: 105 weeks	
Resu	it.	: negative	
Speci		: Mouse	
	cation Route	: Oral	
Expo: Resu	sure time	: 93 weeks	
Resu	it.	: negative	
		3-ylmethyl 7-oxabicyc	lo[4.1.0]heptane-3-carboxylate:
Speci		: Mouse	
	cation Route	: Skin contact	
Expos	sure time	: 29 Months	
ĸesu	it.	: negative	





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Spec Appl	ication Route osure time	: Rat : Ingestion : 22 Months : negative	
May	roductive toxicity damage the unborn child.		
	ponents:		
-	pan-2-ol: cts on fertility	: Test Type: Tw Species: Rat Application Ro Result: negativ	
Effec	ets on foetal develop- t	: Test Type: Em Species: Rat Application Ro Result: negativ	
N-Me	ethyl-2-pyrrolidone:		
	cts on fertility	Species: Rat Application Ro	D Test Guideline 416
Effect	cts on foetal develop- t	Species: Rat Application Ro	D Test Guideline 414
		Species: Rat	rtility/early embryonic development oute: inhalation (vapour) e
		Test Type: Em Species: Rabb Application Ro Result: positiv	oute: Ingestion
	oductive toxicity - As- ment	: Clear evidence animal experir	e of adverse effects on development, based o nents.
	zuron:		
Effec	cts on fertility	: Test Type: Tw	o-generation reproduction toxicity study



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		Species: Rat Application R Result: nega	Route: Ingestion
Effec ment	ts on foetal develop-	Species: Rat	Route: Ingestion
		Species: Rat Application R	Route: Ingestion CD Test Guideline 414
aban	nectin (combination o	f avermectin B1a a	and avermectin B1b) (ISO):
Effec	ts on fertility	: Test Type: For Species: Rat Application R Result: Effec	, male Route: Oral
		Species: Rat Application R	Route: Oral onic Development: NOAEL: 0.12 mg/kg body
Effec ment	ts on foetal develop-	Species: Mou Application R General Toxi Developmen Result: Cleft	Route: Oral city Maternal: NOAEL: 0.05 mg/kg body weight tal Toxicity: NOAEL: 0.2 mg/kg body weight
		Species: Rat Application R Developmen Result: Cleft survival	
Repr sess	oductive toxicity - As- ment		nce of adverse effects on sexual function and d on animal experiments., Some evidence of



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		adverse effect ments.	ts on development, based on animal experi-
7-0xa	abicyclo[4.1.0]hept-3	-vlmethyl 7-oxabicy	clo[4.1.0]heptane-3-carboxylate:
	ts on foetal develop-	: Test Type: En Species: Rat Application Ro	nbryo-foetal development oute: Ingestion D Test Guideline 414
2,6-D	i-tert-butyl-p-cresol:		
Effect	ts on fertility	Species: Rat	vo-generation reproduction toxicity study oute: Ingestion ve
Effect ment	ts on foetal develop-	Species: Rat	nbryo-foetal development oute: Ingestion ve
	- single exposure		
May	cause respiratory irrita cause drowsiness or c		
May o <u>Com</u>	cause drowsiness or d ponents:		
May o <u>Com</u> Propa	cause drowsiness or d	lizziness.	owsiness or dizziness.
May o <u>Comp</u> Propa Asses	cause drowsiness or d ponents: an-2-ol: ssment	lizziness.	owsiness or dizziness.
May of Comp Propa Asses N-Me	cause drowsiness or d ponents: an-2-ol:	lizziness. : May cause dro	owsiness or dizziness. spiratory irritation.
May of Comp Propa Asses N-Me Asses STOT May of	cause drowsiness or d ponents: an-2-ol: ssment thyl-2-pyrrolidone: ssment F - repeated exposure	lizziness. : May cause dro : May cause res e	
May of Comp Propa Asses N-Me Asses STOT May of Comp	cause drowsiness or d ponents: an-2-ol: ssment thyl-2-pyrrolidone: ssment r - repeated exposur cause damage to orga ponents:	lizziness. : May cause dro : May cause res e ns (Central nervous s	spiratory irritation.
May of Comp Propa Asses N-Me Asses STOT May of Comp abam Expos Targe	cause drowsiness or d ponents: an-2-ol: ssment thyl-2-pyrrolidone: ssment r - repeated exposur cause damage to orga ponents:	 lizziness. May cause dra May cause rest May cause rest May cause rest May cause rest Ingestion and a constrained of a constrained	spiratory irritation. system) through prolonged or repeated exposu nd avermectin B1b) (ISO):



ersion .0	Revision Date: 06.07.2024	SDS Number: 800409-00025	Date of last issue: 06.04.2024 Date of first issue: 12.07.2016
	-tert-butyl-p-cresol: sment	: No significant h tions of 100 mg	ealth effects observed in animals at concentra /kg bw or less.
Popo	ated dose toxicity		
	oonents:		
Propa Specie NOAE Applic	an-2-ol: es	: Rat : 12.5 mg/l : inhalation (vapo : 104 Weeks	pur)
N-Met	hyl-2-pyrrolidone:		
Specie NOAE LOAE Applic	es L L ation Route sure time	: Rat, male : 169 mg/kg : 433 mg/kg : Ingestion : 90 Days : OECD Test Gu	ideline 408
	L L ation Route sure time	: Rat : 0.5 mg/l : 1 mg/l : inhalation (dust : 96 Days : OECD Test Gu	
	E	: Rabbit : 826 mg/kg : 1,653 mg/kg : Skin contact : 20 Days	
Expos	es	: Rat : 240 mg/kg : Ingestion : 13 Weeks : Liver, Thyroid, I	^D ituitary gland
	EL	: Rat : 10 mg/kg : 100 mg/kg : Skin contact : 3 Weeks	
Specie	es	: Dog	



rsion	Revision Date: 06.07.2024	SDS Number: 800409-00025	Date of last issue: 06.04.2024 Date of first issue: 12.07.2016		
NOAE	-1	: 7.5 mg/kg			
LOAE		: 110 mg/kg			
-	ation Route	: Ingestion			
	sure time	: 52 Weeks			
Targe	t Organs	: Liver			
abam	ectin (combination	of avermectin B1a ar	nd avermectin B1b) (ISO):		
Speci		: Rat			
NOAE		: 1.5 mg/kg			
	cation Route	: Oral : 24 Months			
	sure time t Organs	: Central nervou	is system		
Symp	0	: Tremors, ataxi			
Speci		: Mouse			
NOAE		: 4.0 mg/kg			
	cation Route sure time	: Oral : 24 Months			
	t Organs	: Central nervou	is system		
Symp		: Tremors, ataxi			
Speci		: Dog			
NOAE		: 0.25 mg/kg			
LOAE	ation Route	: 0.5 mg/kg : Oral			
	sure time	: Oral : 53 Weeks			
	t Organs	: Central nervous system			
Symp		: Tremors, weig			
Rema	ırks	: mortality obser	rved		
Speci	es	: Monkey			
NOAE		: 1.0 mg/kg			
	cation Route	: Oral			
	sure time t Organs	: 14 Weeks : Central nervou	is system		
raige	Organs	. Central hervot	a system		
		• • •	clo[4.1.0]heptane-3-carboxylate:		
Speci NOAE		: Rat			
LOAE		: 5 mg/kg : 50 mg/kg			
-	ation Route	: Ingestion			
	sure time	: 90 Days			
Metho	od	: OECD Test G	uideline 408		
2,6-Di	i-tert-butyl-p-cresol:	:			
Speci	es	: Rat			
NOAE	EL	: 25 mg/kg			
	cation Route	: Ingestion			
Expos	sure time	: 22 Months			
			0		



/ersion 6.0	Revision Date: 06.07.2024	SDS Number: 800409-00025	Date of last issue: 06.04.2024 Date of first issue: 12.07.2016
Aspii	ration toxicity		
Not c	lassified based on ava	ailable information.	
Expe	rience with human e	exposure	
Com	ponents:		
N-Me	thyl-2-pyrrolidone:		
Skin	contact	: Symptoms: S	kin irritation
abam	nectin (combination	of avermectin B1a a	nd avermectin B1b) (ISO):
Inges	tion	, i	lay cause, Tremors, Diarrhoea, central nervous s, Salivation, tearing
Section 1	2: Ecological inform	ation	
Τοχία	City		

Components:

Propan-2-ol:			
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l Exposure time: 96 h	
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 24 h	
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): > 1,050 mg/l Exposure time: 16 h	
N-Methyl-2-pyrrolidone:			
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 500 mg/l Exposure time: 96 h	
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 24 h Method: DIN 38412	
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): 600.5 mg/l Exposure time: 72 h	
		EC10 (Desmodesmus subspicatus (green algae)): 92.6 mg/l Exposure time: 72 h	
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 12.5 mg/l Exposure time: 21 d Method: OECD Test Guideline 211	
Toxicity to microorganisms	:	EC50: > 600 mg/l Exposure time: 30 min Method: ISO 8192	



Fluazuron: Image: LC50 (Cyprinus carpio (Carp)): > 9.1 mg/l Exposure time: 96 h Toxicity to daphnia and other aquatic invertebrates Image: EC50 (Daphnia sp. (water flea)): 0.0006 mg/l Exposure time: 48 h Toxicity to algae/aquatic plants Image: NOEC (Raphidocelis subcapitata (freshwater gree 27.9 mg/l Exposure time: 72 h M-Factor (Acute aquatic tox- is plants Image: 1,000 M-Factor (Chronic aquatic is subcapitata time: 72 h M-Factor (Chronic aquatic is the complexity) Image: 1,000 Mameetin (combination of avermeetin B1a and avermeetin B1b) (ISO): Toxicity to fish Toxicity to fish Image: LC50 (Oncorhynchus mykiss (rainbow trout)): 3.2 Exposure time: 96 h	
aquatic invertebratesExposure time: 48 hToxicity to algae/aquatic plants:NOEC (Raphidocelis subcapitata (freshwater gree 27.9 mg/l Exposure time: 72 hM-Factor (Acute aquatic tox- icity) M-Factor (Chronic aquatic toxicity):1,000 1,000 1,000 toxicity) abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Toxicity to fish:LC50 (Oncorhynchus mykiss (rainbow trout)): 3.2	
plants27.9 mg/l Exposure time: 72 hM-Factor (Acute aquatic tox- : 1,000 icity)1,000 toxicity)M-Factor (Chronic aquatic : 1,000 toxicity)1,000 toxicity)abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3.2	
icity) M-Factor (Chronic aquatic : 1,000 toxicity) abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3.2	∍n alga)):
M-Factor (Chronic aquatic : 1,000 toxicity) abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3.2	
Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3.2	
·	µg/l
LC50 (Lepomis macrochirus (Bluegill sunfish)): 9.6 Exposure time: 96 h	6 µg/l
LC50 (Ictalurus punctatus (channel catfish)): 24 μα Exposure time: 96 h	g/l
LC50 (Cyprinus carpio (Carp)): 42 μg/l Exposure time: 96 h	
LC50 (Cyprinodon variegatus (sheepshead minno Exposure time: 96 h	w)): 15 μg/l
Toxicity to daphnia and other : EC50 (Americamysis): 0.022 µg/l aquatic invertebrates Exposure time: 96 h	
EC50 (Daphnia magna (Water flea)): 0.34 μg/l Exposure time: 48 h	
Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green alg plants mg/l Exposure time: 72 h	ae)): 100
M-Factor (Acute aquatic tox- : 10,000	
icity) Toxicity to fish (Chronic tox- : NOEC (Pimephales promelas (fathead minnow)): icity) Exposure time: 32 d	0.52 µg/l
Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 0.03 µg/l aquatic invertebrates (Chron- ic toxicity)	
NOEC (Mysidopsis bahia (opossum shrimp)): 0.00 Exposure time: 28 d)35 µg/l



/ersion 3.0	Revision Date: 06.07.2024		0S Number: 0409-00025	Date of last issue: 06.04.2024 Date of first issue: 12.07.2016				
M-Fac toxicit	ctor (Chronic aquatic	:	10,000					
	Toxicity to microorganisms		: EC50: > 1,000 mg/l Exposure time: 3 h Test Type: Respiration inhibition					
7-Oxa	abicyclo[4.1.0]hept-3-y	lme	thyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:				
Toxic	Toxicity to fish		LC50 (Oncorhync Exposure time: 96 Method: OECD Te					
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te					
	Toxicity to algae/aquatic plants		ErC50 (Raphidoce 110 mg/l Exposure time: 72 Method: OECD Te					
			NOEC (Raphidoco mg/l Exposure time: 72 Method: OECD Te					
Toxic	ity to microorganisms	:	EC10 (activated s Exposure time: 3 Method: OECD Te	h				
2,6-D	i-tert-butyl-p-cresol:							
Toxic	ity to fish	:	Exposure time: 96	(zebra fish)): > 0.57 mg/l 5 h 67/548/EEC, Annex V, C.1.				
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te					
Toxic plants	ity to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te					
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te					
M-Fac icity)	ctor (Acute aquatic tox-	:	1					



/ersion 8.0	Revision Date: 06.07.2024		0S Number: 0409-00025	Date of last issue: 06.04.2024 Date of first issue: 12.07.2016
Toxicit icity)	Toxicity to fish (Chronic tox- icity)		NOEC (Oryzias la Exposure time: 30 Method: OECD T	
aquati	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		NOEC (Daphnia magna (Water flea)): 0.316 mg/l Exposure time: 21 d	
	ctor (Chronic aquatic	:	1	
	ty to microorganisms	:	EC50: > 10,000 n Exposure time: 3 Method: OECD T	h
Persis	stence and degradabili	ity		
<u>Comp</u>	oonents:			
•	ın-2-ol: gradability	:	Result: rapidly degradable	
BOD/0	COD	:	BOD: 1,19 (BOD5) COD: 2,23 BOD/COD: 53 %	
N-Met	hyl-2-pyrrolidone:			
Biode	gradability	:	Result: Readily biodegradable. Biodegradation: 73 % Exposure time: 28 d Method: OECD Test Guideline 301C	
abam	ectin (combination of a	ave	rmectin B1a and a	avermectin B1b) (ISO):
Stabili	ty in water	:	Hydrolysis: 50 %(< 12 h)
	bicyclo[4.1.0]hept-3-yl gradability	Imethyl 7-oxabicyclo[4.1.0]heptane-3 : Result: Not readily biodegradable. Biodegradation: 71 % Exposure time: 28 d Method: OECD Test Guideline 301		y biodegradable. 71 % 3 d
	-tert-butyl-p-cresol: gradability	:	Result: Not readily biodegradable. Biodegradation: 4.5 % Exposure time: 28 d Method: OECD Test Guideline 301C	





ersion .0	Revision Date: 06.07.2024		Number: 09-00025	Date of last issue: 06.04.2024 Date of first issue: 12.07.2016
Bioad	ccumulative potential			
Com	ponents:			
Propa	an-2-ol:			
	ion coefficient: n- ol/water	: lo	g Pow: 0.05	
	thyl-2-pyrrolidone:			
	ion coefficient: n- ol/water		g Pow: -0.46 ethod: OECD T	est Guideline 107
Fluaz	uron:			
	ion coefficient: n- ol/water	: lo	g Pow: 5.1	
abam	nectin (combination of			avermectin B1b) (ISO):
Bioac	cumulation	: B	ioconcentration	factor (BCF): 52
	ion coefficient: n- ol/water	: lo	g Pow: 4	
7-0xa	abicyclo[4.1.0]hept-3-y	Imethy	l 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:
	ion coefficient: n- ol/water		g Pow: 1.34 ethod: OECD 1	est Guideline 107
2.6-D	i-tert-butyl-p-cresol:			
•	cumulation			s carpio (Carp) factor (BCF): 330 - 1,800
	ion coefficient: n- ol/water	: lo	g Pow: 5.1	
Mobi	lity in soil			
<u>Com</u>	ponents:			
abam	nectin (combination of	averm	ectin B1a and	avermectin B1b) (ISO):
Distri	bution among environ- al compartments		g Koc: > 3.6	
	r adverse effects ata available			
ection 1	3: Disposal considera	ions		
Dien	osal methods			
-	e from residues			f waste into sewer.

	Dispose of in accordance with local regulations.
	Encode the state of the stat





Versi 8.0	ion	Revision Date: 06.07.2024		0S Number: 0409-00025	Date of last issue: 06.04.2024 Date of first issue: 12.07.2016				
				pose such contain of ignition. They n	, cut, weld, braze, solder, drill, grind, or ex- ners to heat, flame, sparks, or other sources nay explode and cause injury and/or death. becified: Dispose of as unused product.				
Section 14: Transport information									
	Interna	ational Regulations							
	UNRTDG UN number UN proper shipping name Transport hazard class(es) Packing group Labels Environmental hazards		:	UN 1993 FLAMMABLE LIC (Propan-2-ol) 3 III 3 no	QUID, N.O.S.				
	IATA-E UN/ID I UN pro	-	:	UN 1993 Flammable liquid,	n.o.s.				
;	Packing Labels Packing aircraft	g instruction (passen-	::	(Propan-2-ol) 3 III Flammable Liquic 366 355	ls				
	IMDG- UN nur	Code	:		azuron, abamectin (combination of avermec-				
	Packing Labels EmS C	ort hazard class(es) g group ode pollutant	: :	and avern 3 III 3 F-E, <u>S-E</u> yes	nectin B1b) (ISO))				
	Transport in bulk according to IMO instruments								

Not applicable for product as supplied.

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.

Section 15: Regulatory information

Safety, health and environmental regulations specific for the product in question





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		Act and Workplace Safety and Health (General Provisions) Regul d to the SDS, labelling, PEL and other requirements in the					
Envir Envir	Act/Regulations. Environmental Protection and Management Act and : Not applicable Environmental Protection and Management (Hazard- ous Substances) Regulations						
	Safety (Petroleum and F Ilations	ammable Materials) : Epoxide resins, in liquids or pastes (epoxy resin) Isopropanol					
The AICS	• •	duct are reported in the following inventories: : not determined					
DSL		: not determined					
IECS	C	: not determined					
Section 1	6: Other information						
Revis	sion Date	: 06.07.2024					
Furth	ner information						
	ces of key data used to bile the Safety Data t	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/					
	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.						
Date	format	: dd.mm.yyyy					
Full t	ext of other abbreviati	ns					
ACG ACG SG C	IH BEI	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) Singapore. Workplace Safety and Health (General Provisions) Regulations - First Schedule Permissible Exposure Limits of Toxic Substances.					
ACG SG C	IH / TWA IH / STEL DEL / PEL (long term) DEL / PEL (short term)	 8-hour, time-weighted average Short-term exposure limit Permissible Exposure Level (PEL) Long Term Permissible Exposure Level (PEL) Short Term 					
Land Carci	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						

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 Sys-



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tem; 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 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; 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

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.

SG / EN