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SECTION 1. IDENTIFICATION

Product name	:	Fluazuron / Abamectin Formulation		
Manufacturer or supplier's	deta	ails		
Company name of supplier Address	:	Merck & Co., Inc 126 E. Lincoln Avenue		
Telephone Emergency telephone		Rahway, New Jersey U.S.A. 07065 908-740-4000 1-908-423-6000		
E-mail address	:	EHSDATASTEWARD@merck.com		
Recommended use of the chemical and restrictions on use				
Recommended use Restrictions on use	:	Veterinary product Not applicable		

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accord 1910.1200)	dan	ce with the OSHA Hazard Communication Standard (29 CFR
Flammable liquids	:	Category 3
Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Skin irritation	:	Category 2
Eye irritation	:	Category 2A
Skin sensitization	:	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 (Oral)	:	Category 1 (Central nervous system)
Specific target organ toxicity - repeated exposure	:	Category 2 (Central nervous system, nasal cavity)
GHS label elements Hazard pictograms	:	

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Signa	al Word	: Danger	
Haza	rd Statements	H302 + H332 Ha H315 Causes sk H317 May cause H319 Causes se H335 May cause H336 May cause H341 Suspected H360Df May dar fertility. H372 Causes da through prolonge H373 May cause	e liquid and vapor. armful if swallowed or if inhaled. in irritation. e an allergic skin reaction. erious eye irritation. e respiratory irritation. e drowsiness or dizziness. I of causing genetic defects. mage the unborn child. Suspected of damaging amage to organs (Central nervous system) ed or repeated exposure if swallowed. e damage to organs (Central nervous system, bugh prolonged or repeated exposure.
Preca	autionary Statements	Prevention:	
		P202 Do not har and understood. P210 Keep away es. No smoking. P233 Keep cont P241 Use explos equipment. P242 Use only n P243 Take preca P260 Do not bre P264 Wash skin P270 Do not eat P271 Use only o P272 Contamina the workplace.	y from heat, sparks, open flame and hot surfac- ainer tightly closed. sion-proof electrical, ventilating and lighting non-sparking tools. autionary measures against static discharge. athe mist or vapors. thoroughly after handling. , drink or smoke when using this product. butdoors or in a well-ventilated area. ated work clothing must not be allowed out of ective gloves, protective clothing, eye protection
		unwell. Rinse me P303 + P361 + F all contaminated P304 + P340 + F and keep comfo unwell. P305 + P351 + F for several minu- to do. Continue F P308 + P313 IF P333 + P313 If s tion. P337 + P313 If s	 P353 IF ON SKIN (or hair): Take off immediately clothing. Rinse skin with water. P312 IF INHALED: Remove person to fresh air rtable for breathing. Call a doctor if you feel P338 IF IN EYES: Rinse cautiously with water tes. Remove contact lenses, if present and easy

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reuse.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.

Other hazards

Vapors 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	>= 1 - < 5
abamectin (combination of avermec- tin B1a and avermectin B1b) (ISO)	71751-41-2	>= 1 - < 5
7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7- oxabicyclo[4.1.0]heptane-3- carboxylate	2386-87-0	>= 1 - < 5

Actual concentration is withheld as a trade secret

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 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. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
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.





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	important symptoms ffects, both acute and ed	Causes serious May cause resp May cause drow Suspected of ca May damage the fertility. Causes damage exposure if swal May cause dam	ation. Ilergic skin reaction. eye irritation. iratory irritation. rsiness or dizziness. using genetic defects. e unborn child. Suspected of damaging to organs through prolonged or repeated
Protec	ction of first-aiders	and use the reco	ders should pay attention to self-protection, ommended personal protective equipment
Notes	to physician		ial for exposure exists (see section 8). tically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media		Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Chlorine compounds Fluorine compounds
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.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	Remove all sources of ignition. 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.

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		Prevent spread oil barriers). Retain and disp	leakage or spillage if safe to do so. ling over a wide area (e.g., by containment or pose of contaminated wash water. is should be advised if significant spillages ained.
Methods and materials for containment and cleaning up		Soak up with in Suppress (know jet. For large spills, containment to can be pumped container. Clean up remai absorbent. Local or nationa disposal of this employed in the determine whic Sections 13 an	cols should be used. ert absorbent material. ck down) gases/vapors/mists with a water spray provide diking or other appropriate keep material from spreading. If diked material d, store recovered material in appropriate ining materials from spill with suitable al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to h regulations are applicable. d 15 of this SDS provide information regarding national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	 See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. If sufficient ventilation is unavailable, use with local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equip- ment.
Advice on safe handling	 Do not get on skin or clothing. Do not breathe mist or vapors. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Non-sparking tools should be used. Keep container tightly closed. Already sensitized individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitizers. Keep away from heat, hot surfaces, sparks, open flames and 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 the environment.





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Condi	ials to avoid	 Keep in properly Store locked up. Keep tightly clos Keep in a cool, v Store in accorda Keep away from Do not store with Strong oxidizing Self-reactive sub Organic peroxide Flammable solid Pyrophoric liquid Self-heating sub 	y labeled containers. sed. well-ventilated place. ance with the particular national regulations. h heat and sources of ignition. h the following product types: agents ostances and mixtures es ds s ostances and mixtures I mixtures which in contact with water emit
			ic substances and mixtures

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace co	•		1	1
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		ST	500 ppm 1,225 mg/m ³	NIOSH REL
		TWA	400 ppm 980 mg/m ³	NIOSH REL
		TWA	400 ppm 980 mg/m ³	OSHA Z-1
N-Methyl-2-pyrrolidone	872-50-4	TWA	15 ppm 60 mg/m³	US WEEL
		STEL	30 ppm 120 mg/m ³	US WEEL
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

Ingredients with workplace control parameters

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-	Urine	End of shift (As	100 mg/l	ACGIH BEI



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			pyrrolidone		soon as possible after exposure ceases)		
Propa	an-2-ol	67-63-0	Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI
Engir	neering measures	tec les All de pro Co are the col	e appropriate e chnologies to co s quick connect engineering co sign and opera otect products, intainment tech e compound to ntainment devi- nimize open ha	ontrol airborr ctions). ontrols should ted in accord workers, and nologies sui ontrol at sour uncontrolled ces).	the concentr d be implen dance with (d the enviro table for co ce and to p	ations (e.g., d nented by faci GMP principle nment. ntrolling comp revent migrati	rip- lity es to pounds
			e explosion-pro uipment.	oof electrical	, ventilating	and lighting	
Perso	onal protective equ	ipment					
Respi	iratory protection	ma con un Fo use by ha: suj rel cire	eneral and loca aintain vapor ex ncentrations ar known, approp llow OSHA res e NIOSH/MSH air purifying re zardous chemi oplied respirato ease, exposure cumstance whe equate protecti	posures below riate respirat pirator regula A approved r spirators aga cal is limited or if there is a levels are u ere air purifyi	ow recommon promended tory protecti ations (29 C respirators. ainst expose . Use a pos any potentia unknown, or	ended limits. limits or are on should be CFR 1910.134 Protection pro ure to any itive pressure al for uncontro	Where worn.) and ovided air lled
Hand	protection	uu		011.			
Ma	aterial	: Ch	emical-resistar	nt gloves			
Re	emarks	flai	nsider double mmable, which otection.				
Eye p	protection	: We If ti Mis We po	ear safety glass he work enviro sts or aerosols ear a faceshield tential for direc rosols.	nment or act , wear the ap d or other full	ivity involve propriate g l face prote	es dusty condi oggles. ction if there is	sa
Skin a	and body protection	: Wo Ad	ork uniform or l ditional body g k being perform	arments sho	uld be used		



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Hygiei	ne measures	Use appropriate contaminated of : If exposure to of eye flushing sys- working place. When using do Contaminated of workplace. Wash contamin The effective of engineering con appropriate deg	chemical is likely during typical use, provide stems and safety showers close to the not eat, drink or smoke. work clothing should not be allowed out of the nated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	No data available
Odor	:	No data available
Odor 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	:	82 °F / 28 °C
Evaporation rate	:	No data available
Evaporation rate Flammability (solid, gas)	:	No data available Not applicable
	::	
Flammability (solid, gas)	:	Not applicable
Flammability (solid, gas) Flammability (liquids) Upper explosion limit / Upper	:	Not applicable Not applicable
Flammability (solid, gas) Flammability (liquids) Upper explosion limit / Upper flammability limit Lower explosion limit / Lower	:	Not applicable Not applicable No data available
Flammability (solid, gas) Flammability (liquids) Upper explosion limit / Upper flammability limit Lower explosion limit / Lower flammability limit	: :	Not applicable Not applicable No data available No data available

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Densi	ity	: No data avai	lable					
Solubility(ies) Water solubility		: No data avai	lable					
	ion coefficient: n-	: Not applicab	e					
octanol/water Autoignition temperature		: No data avai	: No data available					
Deco	mposition temperature	: No data avai	lable					
Visco Vis	sity scosity, kinematic	: No data avai	lable					
Explo	sive properties	: Not explosive	9					
Oxidiz	zing properties	: The substan	ce or mixture is not classified as oxidizing.					
Molec	cular weight	: No data avai	lable					
	le characteristics le size	: Not applicab	e					

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 vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	Heat, flames and sparks. 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 or if inhaled.

Product:

Acute oral toxicity

: Acute toxicity estimate: 1,822 mg/kg Method: Calculation method

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Acute	inhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati	h dust/mist
Acute	e dermal toxicity	:	Acute toxicity esti Method: Calculati	mate: > 5,000 mg/kg on method
Com	oonents:			
Propa	an-2-ol:			
	oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 25 Exposure time: 6 Test atmosphere:	h
Acute	e dermal toxicity	:	LD50 (Rabbit): > \$	5,000 mg/kg
N-Me	thyl-2-pyrrolidone:			
	oral toxicity	:	LD50 (Rat): 4,150) mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5.1 Exposure time: 4 Test atmosphere: Method: OECD Te	h dust/mist
Acute	e dermal toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
Fluaz	uron:			
Acute	oral toxicity	:	LD50 (Rat): > 5,0 Method: OECD To	
Acute	inhalation toxicity	:	LC50 (Rat): > 6.0 Exposure time: 4 Test atmosphere: Method: OECD Te	h dust/mist
Acute	e dermal toxicity	:	LD50 (Rat): > 2,0 Method: OECD To	
abam	ectin (combination of	ave	rmectin B1a and a	avermectin B1b) (ISO):
	oral toxicity	:	LD50 (Rat): 24 m	,, ,
			LD50 (Mouse): 10) mg/kg
			LDLo (Monkey): 2 Symptoms: Dilata	
Acute	inhalation toxicity	:	LC50 (Rat): 0.023 Exposure time: 4	





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II		Test atmosph	ere: dust/mist
Acute	e dermal toxicity	: LD50 (Rat): 3	30 mg/kg
		LD50 (Rabbit)): 2,000 mg/kg
7-Ox	abicyclo[4.1.0]hept-3-	ylmethyl 7-oxabicy	clo[4.1.0]heptane-3-carboxylate:
Acute	e oral toxicity		ale): > 2,959 - 5,000 mg/kg D Test Guideline 401
Acute	e inhalation toxicity		e: 4 h
Acute	e dermal toxicity		2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal
-	corrosion/irritation es skin irritation.		
Com	ponents:		
	an-2-ol:	Dabbit	
Spec Resu		: Rabbit : No skin irritati	on
N-Me	thyl-2-pyrrolidone:		
Resu		: Skin irritation	
Fluaz	uron:		
Spec	ies	: Rabbit	
Meth		: OECD Test G	
Resu	It	: No skin irritati	on
			nd avermectin B1b) (ISO):
Spec		: Rabbit	
Resu	It	: No skin irritati	on
7-0x	abicyclo[4.1.0]hept-3-	ylmethyl 7-oxabicy	clo[4.1.0]heptane-3-carboxylate:
Spec	ies	: Rabbit	
Meth		: OECD Test G	
Resu	IT	: No skin irritati	on

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Seriou	ıs eye damage/eye i	rritation	
	s serious eye irritatior		
	onents:		
Propa	n-2-ol:		
Specie		: Rabbit	
Result		: Irritation to ey	es, reversing within 21 days
N-Met	hyl-2-pyrrolidone:		
Specie		: Rabbit	
Result		: Irritation to ey	es, reversing within 21 days
Fluazu	iron:		
Specie		: Rabbit	
Result		: Mild eye irritat	
Metho	a	: OECD Test G	ulaeline 405
	•		nd avermectin B1b) (ISO):
Specie		: Rabbit	
Result		: Mild eye irritat	tion
7-Oxa	bicyclo[4.1.0]hept-3-	ylmethyl 7-oxabicy	clo[4.1.0]heptane-3-carboxylate:
Specie		: Rabbit	
Result Metho		: No eye irritatio : OECD Test G	
	u .	. 0200 10300	
Respi	ratory or skin sensit	ization	
	ensitization	opation	
-	ause an allergic skin r ratory sensitization	eaction.	
-	assified based on avail	ilable information.	
<u>Comp</u>	onents:		
Propa	n-2-ol:		
Test T		: Buehler Test	
	s of exposure	: Skin contact	
Specie		: Guinea pig : OECD Test G	uidalina 106
Metho Result		: negative	
N-Met	hyl-2-pyrrolidone:		
Test T	ype	: Local lymph n	ode assay (LLNA)
Routes	s of exposure	: Skin contact	
Specie	es	: Mouse	
Metho		: OECD Test G	uideline 429
Result		: negative	
		12/2	20

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Rema	Remarks		Based on data fro	om similar materials
Fluaz	uron:			
	es of exposure	:	Skin contact	
Speci			Guinea pig	
Resu	IT	:	negative	
abam	ectin (combination o	of averi	mectin B1a and a	avermectin B1b) (ISO):
Test			Maximization Tes	t
	es of exposure		Skin contact	
Resu	It	:	Not a skin sensitiz	zer.
7-0xa	abicyclo[4.1.0]hept-3	-ylmetl	nyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:
Test	Туре		Maximization Tes	t
	es of exposure		Skin contact	
Speci Resu			Guinea pig positive	
Asses	ssment	:	Probability or evic	lence of skin sensitization in humans
Germ	cell mutagenicity			
Suspe	ected of causing gene	tic defe	cts.	
Com	ponents:			
Prop	an-2-ol:			
	toxicity in vitro		Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test
Geno	toxicity in vivo		cytogenetic assay	nalian erythrocyte micronucleus test (in vivo /)
			Species: Mouse Application Route Result: negative	: Intraperitoneal injection
II N-Me	thyl-2-pyrrolidone:			
	toxicity in vitro			rial reverse mutation assay (AMES) est Guideline 471
				o mammalian cell gene mutation test est Guideline 476
			Test Type: DNA c thesis in mammal Result: negative	lamage and repair, unscheduled DNA syn- ian cells (in vitro)

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Geno	toxicity in vivo	cytogenetic a Species: Mou Application R Method: OEC Result: negat Test Type: M cytogenetic te Species: Han Application R	use oute: Ingestion D Test Guideline 474 ive utagenicity (in vivo mammalian bone-marrow est, chromosomal analysis)
		Result: negat	
Fluaz			
Geno	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive
		Test Type: D Result: negat	
		Test Type: In Result: negat	vitro mammalian cell gene mutation test ive
Geno	toxicity in vivo	: Test Type: C Species: Han Result: equiv	
abam	ectin (combination	of avermectin B1a a	nd avermectin B1b) (ISO):
Geno	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive
			vitro mammalian cell gene mutation test Chinese hamster lung cells ive
		Test Type: Al Result: negat	kaline elution assay ive
Geno	toxicity in vivo	cytogenetic te Species: Mou	utagenicity (in vivo mammalian bone-marrow est, chromosomal analysis) ise oute: Intraperitoneal injection
		Result: negat	
			/clo[4.1.0]heptane-3-carboxylate:
Geno	toxicity in vitro		acterial reverse mutation assay (AMES) D Test Guideline 471 ve
		Test Type: In Result: positi	vitro mammalian cell gene mutation test ve

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		r F	nalian cells Result: positive Fest Type: DNA	o sister chromatid exchange assay in mam- damage and repair, unscheduled DNA syn-
			hesis in mamma Result: positive	lian cells (in vitro)
Geno	toxicity in vivo	r S A N	nammalian liver Species: Rat Application Rout	
		9 /	Fest Type: Micro Species: Mouse Application Route Result: negative	nucleus test e: Intraperitoneal injection
		s A N	ay Species: Mouse Application Rout	egenic rodent somatic cell gene mutation as- e: Ingestion Fest Guideline 488
	cell mutagenicity -		Positive result(s) genicity tests.	from in vivo mammalian somatic cell muta-
	nogenicity	ilah la in	f	
_	lassified based on ava ponents:	nable in	iormation.	
Speci Applic	cation Route sure time od	: i : 1 : (Rat nhalation (vapor 104 weeks DECD Test Guid negative	
	thyl-2-pyrrolidone:			
	cation Route sure time	: : 2	Rat ngestion 2 Years negative	
	cation Route sure time	: i : 2	Rat nhalation (vapor 2 Years negative)

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Fluaz	zuron:			
Spec		:	Rat	
	cation Route	:	Ingestion	
Expo Meth	sure time		: 2 Years : OECD Test Guid	aliaa 452
Resu			negative	ellile 455
Spec		:	Mouse	
Appli	cation Route	:	Ingestion	
Expo Resu	sure time		: 2 Years negative	
i tesu	int int		. negative	
abam	nectin (comb	nination of av	ermectin B1a and	avermectin B1b) (ISO):
Spec	•		Rat	
	cation Route		: Oral	
	sure time	:	105 weeks	
Resu	ılt	:	negative	
Ilense	iaa		Mouse	
Spec	cation Route		: Oral	
	sure time		: 93 weeks	
Resu		:	negative	
7-0x	abicyclo[4.1	.0]hept-3-ylm	ethyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:
Spec		:	Mouse	
	cation Route	:	: Skin contact	
	sure time	:	29 Months	
Resu	lit	:	negative	
IARC				t at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC.
OSH			of this product prese of regulated carcino	ent at levels greater than or equal to 0.1% is gens.
NTP				t at levels greater than or equal to 0.1% is carcinogen by NTP.
-	a ducities of			
-	oductive tox	-	Duonootaal af da si	in a fastilit.
	-	undorn child. S	Suspected of damag	лид теплиту.
<u>Com</u>	<u>ponents:</u>			
Prop	an-2-ol:			
Effec	ts on fertility	:	: Test Type: Two-g	generation reproduction toxicity study
			Species: Rat	
			Application Route	e: Ingestion
			Result: negative	
Effec	ts on fetal de	velopment ·	: Test Type: Embr	yo-fetal development
				,





ersion).0	Revision Date: 07/06/2024	SDS Number: 800410-00025	Date of last issue: 04/06/2024 Date of first issue: 07/12/2016
		Species: Ra Application Result: neg	Route: Ingestion
N-Me	thyl-2-pyrrolidone:		
Effect	s on fertility	Species: Ra Application	Route: Ingestion CD Test Guideline 416
Effect	s on fetal development	Species: Ra Application Method: OE Result: pos	Route: Ingestion CD Test Guideline 414 tive
		Species: Ra	Route: inhalation (vapor)
		Species: Ra	Route: Ingestion
Repro sessn	oductive toxicity - As- nent	: Clear evide animal expe	nce of adverse effects on development, based or priments.
Fluaz	uron:		
Effect	s on fertility	Species: Ra	Route: Ingestion
Effect	s on fetal development	Species: Ra	Route: Ingestion
		Species: Ra Application	Route: Ingestion CD Test Guideline 414
abam	ectin (combination of	avermectin B1a	and avermectin B1b) (ISO):
	s on fertility	: Test Type: Species: Ra Application	Fertility

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ersion 0.0	Revision Date: 07/06/2024	SDS Number: 800410-00025	Date of last issue: 04/06/2024 Date of first issue: 07/12/2016
		Species: Rat Application R	nic Development: NOAEL: 0.12 mg/kg body
Effect	s on fetal development	Species: Mou Application R General Toxic Development Result: Cleft p	oute: Oral city Maternal: NOAEL: 0.05 mg/kg body weight al Toxicity: NOAEL: 0.2 mg/kg body weight
		Species: Rab Application Re Developmenta Result: Cleft p survival	
Repro sessn	oductive toxicity - As- nent	fertility, based	ce of adverse effects on sexual function and I on animal experiments., Some evidence of ts on development, based on animal
II 7-Oxa	abicyclo[4.1.0]hept-3-y	methyl 7-oxabicy	vclo[4.1.0]heptane-3-carboxylate:
Effect	s on fetal development	Species: Rat Application R	nbryo-fetal development oute: Ingestion D Test Guideline 414 ive
May o	-single exposure cause respiratory irritatio cause drowsiness or dizz		
-	oonents:		
-	an-2-ol:	Mov course de	ouveinees or dizzinees
Asses	SSMENT	: iviay cause dr	owsiness or dizziness.

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/ersion 0.0	Revision Date: 07/06/2024	SDS Number: 800410-00025	Date of last issue: 04/06/2024 Date of first issue: 07/12/2016
N-Met	thyl-2-pyrrolidone:		
Asses	sment	: May cause res	piratory irritation.
STOT	-repeated exposure		
	es damage to organs (Central nervous syst	em) through prolonged or repeated exposure if
	ause damage to organd d exposure.	ns (Central nervous s	ystem, nasal cavity) through prolonged or re-
Comp	oonents:		
abam	ectin (combination c	of avermectin B1a ar	nd avermectin B1b) (ISO):
	s of exposure	5	
	t Organs	: Central nervou	
Asses	ssment	: Causes damage exposure.	ge to organs through prolonged or repeated
7-Oxa	bicyclo[4.1.0]hept-3	-ylmethyl 7-oxabicy	clo[4.1.0]heptane-3-carboxylate:
	s of exposure	: Ingestion	
-	t Organs	: nasal cavity	
Asses	ssment		luce significant health effects in animals at con >10 to 100 mg/kg bw.
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Propa	an-2-ol:		
Speci		: Rat	
NOAE		: 12.5 mg/l	
	ation Route sure time	: inhalation (vap : 104 Weeks	oor)
N-Me	thyl-2-pyrrolidone:		
Speci	es	: Rat, male	
NOAE		: 169 mg/kg	
LOAE		: 433 mg/kg	
	ation Route	: Ingestion	
Metho	sure time od	: 90 Days : OECD Test G	uideline 408
Speci		: Rat	
NOAE		: 0.5 mg/l	
LOAE	L cation Route	: 1 mg/l : inhalation (dus	t/mist/fuma)
	sure time	: 96 Days	burnisululle)
Fxnos		: OECD Test G	uideline 413
Expos Metho	d		
Metho	es	: Rabbit	
Metho	es EL	: Rabbit : 826 mg/kg : 1,653 mg/kg	

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Applio Expos	cation Route sure time	: Skin contact : 20 Days	
Speci LOAE Applic Expos Targe Speci NOAE LOAE Applic	EL cation Route sure time et Organs es EL	: Rat : 240 mg/kg : Ingestion : 13 Weeks : Liver, Thyroi : Rat : 10 mg/kg : 100 mg/kg : Skin contact : 3 Weeks	d, Pituitary gland
Expo	ΞL	: Dog : 7.5 mg/kg : 110 mg/kg : Ingestion : 52 Weeks : Liver	
Speci NOAE Applic Expos	es EL cation Route sure time et Organs	of avermectin B1a a E Rat E 1.5 mg/kg Coral E 24 Months Central nerve E Tremors, ata	
Expos	EL cation Route sure time et Organs	: Mouse : 4.0 mg/kg : Oral : 24 Months : Central nerve : Tremors, ata	
Expos	EL EL cation Route sure time et Organs otoms	: Dog : 0.25 mg/kg : 0.5 mg/kg : Oral : 53 Weeks : Central nerve : Tremors, we : mortality obs	ight loss
Expos		: Monkey : 1.0 mg/kg : Oral : 14 Weeks : Central nerve	ous system

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0.0	Revision Date: 07/06/2024	-	OS Number: 0410-00025	Date of last issue: 04/06/2024 Date of first issue: 07/12/2016
Speci NOAE LOAE Applic	es EL EL cation Route sure time	Ime	thyl 7-oxabicyd Rat 5 mg/kg 50 mg/kg Ingestion 90 Days OECD Test Gu	c lo[4.1.0]heptane-3-carboxylate: uideline 408
-	ration toxicity lassified based on availa	able	information.	
Expe	rience with human exp	osi	ıre	
	ponents:			
N-Me Skin d	thyl-2-pyrrolidone: contact	:	Symptoms: Sk	in irritation
		ave		d avermectin B1b) (ISO):
Inges	tion	:		ay cause, Tremors, Diarrhea, central nervous , Salivation, tearing
ECTION	12. ECOLOGICAL INFO	ORI	MATION	
		ORI	MATION	
Ecoto	oxicity	ORI	MATION	
Ecoto <u>Com</u> p	oxicity oonents:	ORI	MATION	
Ecoto <u>Comp</u> Propa	oxicity			ales promelas (fathead minnow)): 9,640 mg/l : 96 h
Ecoto <u>Com</u> Propa Toxici	oxicity <u>oonents:</u> an-2-ol:		LC50 (Pimeph Exposure time	: 96 h a magna (Water flea)): > 10,000 mg/l
Ecoto Comp Propa Toxici Toxici aquat	oxicity <u>oonents:</u> an-2-ol: ity to fish ity to daphnia and other		LC50 (Pimeph Exposure time EC50 (Daphnia Exposure time	: 96 h a magna (Water flea)): > 10,000 mg/l : 24 h monas putida): > 1,050 mg/l
Ecoto Comp Propa Toxici aquat Toxici	oxicity ponents: an-2-ol: ity to fish ity to daphnia and other ic invertebrates	:	LC50 (Pimeph Exposure time EC50 (Daphnia Exposure time EC50 (Pseudo	: 96 h a magna (Water flea)): > 10,000 mg/l : 24 h monas putida): > 1,050 mg/l
Ecoto Comp Propa Toxici aquat Toxici	exicity conents: an-2-ol: ity to fish ity to daphnia and other tic invertebrates ity to microorganisms	:	LC50 (Pimephi Exposure time EC50 (Daphnia Exposure time EC50 (Pseudo Exposure time	: 96 h a magna (Water flea)): > 10,000 mg/l : 24 h monas putida): > 1,050 mg/l : 16 h ynchus mykiss (rainbow trout)): > 500 mg/l
Ecoto Com Propa Toxic aquat Toxic N-Me Toxic	Doments: an-2-ol: ity to fish ity to daphnia and other tic invertebrates ity to microorganisms thyl-2-pyrrolidone:	: :	LC50 (Pimephi Exposure time EC50 (Daphnia Exposure time EC50 (Pseudo Exposure time LC50 (Oncorhy Exposure time	: 96 h a magna (Water flea)): > 10,000 mg/l : 24 h monas putida): > 1,050 mg/l : 16 h ynchus mykiss (rainbow trout)): > 500 mg/l : 96 h a magna (Water flea)): > 1,000 mg/l : 24 h
Ecoto Com Propa Toxici aquat Toxici N-Me Toxici aquat	bxicity ponents: an-2-ol: ity to fish ity to daphnia and other ity to daphnia and other ity to microorganisms thyl-2-pyrrolidone: ity to fish ity to daphnia and other ity to algae/aquatic	: :	LC50 (Pimephi Exposure time EC50 (Daphnia Exposure time EC50 (Pseudo Exposure time LC50 (Oncorhy Exposure time EC50 (Daphnia Exposure time Method: DIN 3	: 96 h a magna (Water flea)): > 10,000 mg/l : 24 h monas putida): > 1,050 mg/l : 16 h ynchus mykiss (rainbow trout)): > 500 mg/l : 96 h a magna (Water flea)): > 1,000 mg/l : 24 h 8412 odesmus subspicatus (green algae)): 600.5 mg/

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rsion 0	Revision Date: 07/06/2024		9S Number: 0410-00025	Date of last issue: 04/06/2024 Date of first issue: 07/12/2016	
	ic invertebrates (Chron-		NOEC (Daphnia r Exposure time: 21 Method: OECD Te		
Toxicity to microorganisms		:	EC50: > 600 mg/l Exposure time: 30 min Method: ISO 8192		
Fluaz	uron:				
Toxici	ity to fish	:	LC50 (Cyprinus ca Exposure time: 96	arpio (Carp)): > 9.1 mg/l 3 h	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia sr Exposure time: 48	o. (Water flea)): 0.0006 mg/l 3 h	
Toxici plants	ity to algae/aquatic	:	NOEC (Raphidoca 27.9 mg/l Exposure time: 72	elis subcapitata (freshwater green alga)): ? h	
abam	ectin (combination of a	ave	rmectin B1a and a	vermectin B1b) (ISO):	
	ity to fish	:		hus mykiss (rainbow trout)): 3.2 µg/l	
			LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 9.6 µg/l 5 h	
			LC50 (Ictalurus pu Exposure time: 96	unctatus (channel catfish)): 24 µg/l 5 h	
			LC50 (Cyprinus ca Exposure time: 96	arpio (Carp)): 42 μg/l δ h	
			LC50 (Cyprinodor Exposure time: 96	n variegatus (sheepshead minnow)): 15 μξ δ h	
	ity to daphnia and other ic invertebrates	:	EC50 (Americamy Exposure time: 96		
			EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.34 µg/l 3 h	
Toxici plants	ity to algae/aquatic	:	: EC50 (Pseudokirchneriella subcapitata (green algae)): 1 mg/l Exposure time: 72 h		
Toxici icity)	ity to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32	es promelas (fathead minnow)): 0.52 μg/l 2 d	
	ity to daphnia and other ic invertebrates (Chron- icity)	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.03 µg/l d	

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٢	Toxicity	to microorganisms	:	Exposure time: 28	g/l h
	7-Oxab	icyclo[4.1.0]hept-3-y	lme	thyl 7-oxabicyclo	4.1.0]heptane-3-carboxylate:
		to fish	:		hus mykiss (rainbow trout)): 24 mg/l
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	v to algae/aquatic	:	ErC50 (Raphidoco 110 mg/l Exposure time: 72 Method: OECD To	
				NOEC (Raphidocomg/l Exposure time: 72 Method: OECD To	
	Toxicity	to microorganisms	:	EC10 (activated s Exposure time: 3 Method: OECD Te	h
F	Persist	ence and degradabili	ity		
<u>(</u>	Compo	onents:			
F	Propan	n-2-ol:			
E	Biodegi	radability	:	Result: rapidly de	gradable
E	BOD/C	OD	:	BOD: 1,19 (BOD5	i)

BOD/COD: 53 %

N-Methyl-2-pyrrolidone:

Biodegradability	: Result: Readily biodegradable.
	Biodegradation: 73 %
	Exposure time: 28 d
	Method: OECD Test Guideline 301C
11	

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

COD: 2,23

Stability in water	:	Hydrolysis: 50 %(< 12 h)
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7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:

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Biode	egradability	:	Result: Not readi Biodegradation: Exposure time: 2 Method: OECD T	71 %
Bioa	ccumulative potentia	I		
Com	ponents:			
Prop	an-2-ol:			
	ion coefficient: n- ol/water	:	log Pow: 0.05	
N-Me	thyl-2-pyrrolidone:			
	ion coefficient: n- ol/water	:	log Pow: -0.46 Method: OECD T	est Guideline 107
Fluaz	uron:			
	ion coefficient: n- ol/water	:	log Pow: 5.1	
abam	nectin (combination o	of ave	rmectin B1a and	avermectin B1b) (ISO):
Bioac	cumulation	:	Bioconcentration	factor (BCF): 52
	ion coefficient: n- ol/water	:	log Pow: 4	
7-0x	abicyclo[4.1.0]hept-3	-ylme	thyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:
	ion coefficient: n- ol/water	:	0	est Guideline 107
Mobi	lity in soil			
Com	ponents:			
Distri	nectin (combination of bution among environ- bution among environ- al compartments		rmectin B1a and log Koc: > 3.6	avermectin B1b) (ISO):
	r adverse effects ata available			

Disposal methods		
Waste from residues	:	Dispose of in accordance with local regulations. Do not dispose of waste into sewer.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or

Labels

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			death. If not otherwise	e specified: Dispose of as unused product.
ECTION	14. TRANSPORT INFO)RM	ATION	
Inter	national Regulations			
UNR	TDG			
UN n	umber	:	UN 1993	
	er shipping name	:	(Propan-2-ol)	LIQUID, N.O.S.
Class		:	3	
	ing group	:		
Label		÷	3	
	onmentally hazardous	•	no	
	-DGR			
UN/IE		:	UN 1993	id a s s
	er shipping name	:	Flammable liqu (Propan-2-ol)	JIG, N.O.S.
Class		:	3	
Labe	ing group	÷	 Flommable Lie	uido
	ing instruction (cargo	:	Flammable Lic 366	uius
aircra		•	000	
Pack	ing instruction (passen- ircraft)	:	355	
-				
	G-Code			
-	umber er shipping name	÷	UN 1993	LIQUID, N.O.S.
Поре		•	(Propan-2-ol, F	Fluazuron, abamectin (combination of averme ermectin B1b) (ISO))
Class		:	3	
	ing group	:		
Label		:	3	
	Code ne pollutant	:	F-E, <u>S-E</u> yes	
	•		•	
	pplicable for product as	-		RPOL 73/78 and the IBC Code
Dom	estic regulation			
49 CI	FR			
	D/NA number	:	UN 1993	
	er shipping name	:	Flammable liqu	uids, n.o.s.
<u> </u>			(Propan-2-ol)	
Class	s ing group	:	3 III	
PACK				

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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

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	Flammable (gases, aerosols, liquids, or solids) Acute toxicity (any route of exposure) Respiratory or skin sensitization Germ cell mutagenicity Reproductive toxicity Specific target organ toxicity (single or repeated exposure) Skin corrosion or irritation Serious eye damage or eye irritation			
SARA 313 :	-	mponents are subject to reporting levels ARA Title III, Section 313:		
	Propan-2-ol	67-63-0	>= 30 - < 50 %	
	N-Methyl-2- pyrrolidone	872-50-4	>= 30 - < 50 %	
	abamectin (com- bination of aver- mectin B1a and avermectin B1b) (ISO)	71751-41-2	>= 1 - < 5 %	

US State Regulations

Pennsylvania Right To Know

Propan-2-ol	67-63-0
N-Methyl-2-pyrrolidone	872-50-4
Poly[oxy(methyl-1,2-ethanediyl)], α-(1-oxotetradecyl)-ω-	642443-86-5
(phenylmethoxy)-	

California Prop. 65

WARNING: This product can expose you to chemicals including N-Methyl-2-pyrrolidone, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



3

3

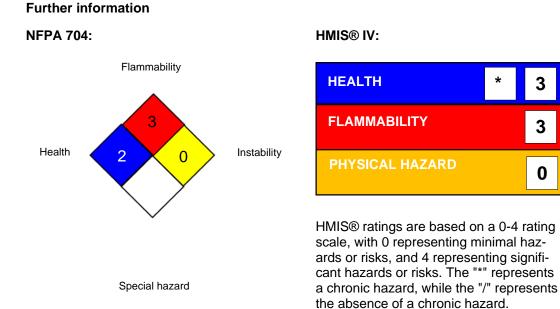
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Califo	ornia List of Hazardo	us Substances	
	Propan-2-ol		67-63-0
Califo	ornia Permissible Exp	oosure Limits for Ch	emical Contaminants
	Propan-2-ol		67-63-0
	N-Methyl-2-pyrrol	idone	872-50-4
The i	ngredients of this pro	oduct are reported ir	the following inventories:
AICS		: not determined	1
DSL		: not determined	1
IECS	С	: not determined	I

SECTION 16. OTHER INFORMATION



Full text of other abbreviations

ACGIH ACGIH BEI NIOSH REL OSHA Z-1	:	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) USA. NIOSH Recommended Exposure Limits USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-
US WEEL ACGIH / TWA ACGIH / STEL NIOSH REL / TWA	:	its for Air Contaminants USA. Workplace Environmental Exposure Levels (WEEL) 8-hour, time-weighted average Short-term exposure limit Time-weighted average concentration for up to a 10-hour
NIOSH REL / ST	:	workday during a 40-hour workweek STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday

US WEEL / STEL

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	A Z-1 / TWA EEL / TWA		our time we r TWA	eighted average

: Short-Term TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amend-ments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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





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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.

US / Z8