

Vers 10.0		Revision Date: 06.07.2024		S Number: 7369-00024	Date of last issue: 13.04.2024 Date of first issue: 02.05.2016
SEC	TION 1.	IDENTIFICATION			
	Product	name	:	Fluralaner / Mox	idectin Liquid Formulation
	Other means of identification		:	Bravecto Plus (A011446) BRAVECTO PLUS FLEA, TICK AND WORM 112.5 M FLURALANER AND 5.6 MG MOXIDECTIN SPOT-O SOLUTION FOR KITTENS AND SMALL CATS (854 BRAVECTO PLUS FLEA, TICK AND WORM 250 MG FLURALANER AND 12.5 MG MOXIDECTIN SPOT-O SOLUTION FOR MEDIUM CATS (85416) BRAVECTO PLUS FLEA, TICK AND WORM 500 MG FLURALANER AND 25 MG MOXIDECTIN SPOT-ON SOLUTION FOR LARGE CATS (85413)	
	Manufa Compar	cturer or supplier's ດ າງ	detai :	i ls MSD	
	Address	3	:		, 6th floor, Ciudad Autonoma rgentina C1013AAP
	Telepho	ne	:	908-740-4000	
	Emerge	ncy telephone	:	1-908-423-6000	
	E-mail a	address	:	EHSDATASTEW	/ARD@msd.com
	Recom	mended use of the c	hem	ical and restriction	ons on use
		nended use ions on use	:	Veterinary produ Not applicable	ict
SECTION 2. HAZARDS IDENTIFICATION					
	GHS CI	assification			
	Flamma	ble liquids	:	Category 2	
	Acute to	oxicity (Oral)	:	Category 5	

Acute toxicity (Oral)	•	Category 5
Acute toxicity (Inhalation)	:	Category 5
Acute toxicity (Dermal)	:	Category 5
Serious eye damage/eye irritation	:	Category 2A
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - repeated exposure	:	Category 2 (Central nervous system)



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Aspira	ation hazard	:	Category 2	
Short hazar	-term (acute) aquatic d	:	Category 1	
Long- hazar	term (chronic) aquatic d	:	Category 1	
GHS	label elements			
Hazaı	rd pictograms	:		
Signa	l Word	:	Danger	
Hazaı	rd Statements	:	H303 + H313 with skin or if H305 May be H319 Causes H360D May d H373 May cau through prolo	lammable liquid and vapor. + H333 May be harmful if swallowed, in contact inhaled. harmful if swallowed and enters airways. serious eye irritation. amage the unborn child. use damage to organs (Central nervous system) nged or repeated exposure. kic to aquatic life with long lasting effects.
Preca	autionary Statements	:	P202 Do not h and understoo P210 Keep av and other igni P260 Do not h P264 Wash si P273 Avoid re	way from heat, hot surfaces, sparks, open flames tion sources. No smoking. oreathe mist or vapors. kin thoroughly after handling. elease to the environment. rotective gloves/ protective clothing/ eye protec-
			CENTER/ doc P303 + P361 ly all contamir P304 + P312 you feel unwe P305 + P351 for several mi easy to do. Co P312 Call a P P331 Do NOT	 + P353 IF ON SKIN (or hair): Take off immediate nated clothing. Rinse skin with water. IF INHALED: Call a POISON CENTER/ doctor if ell. + P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and pontinue rinsing. OISON CENTER/ doctor if you feel unwell. - induce vomiting. If eye irritation persists: Get medical advice/ at-



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Storage:

P405 Store locked up.

Disposal:

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

Other hazards which do not result in classification

Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
N,N-Dimethylacetamide	127-19-5	>= 30 -< 50
Fluralaner	864731-61-3	>= 25 -< 30
Poly(oxy-1,2-ethanediyl), α-[(tetrahydro-2-	31692-85-0	>= 20 -< 30
furanyl)methyl]-ω-hydroxy-		
N,N-Diethyl-m-toluamide	134-62-3	>= 10 -< 20
Acetone	67-64-1	>= 10 -< 20
Moxidectin	113507-06-5	>= 1 -< 2,5
2,6-Di-tert-butyl-p-cresol	128-37-0	>= 0,1 -< 0,25

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. 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	:	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. If vomiting occurs have person lean forward. Call a physician or poison control center immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	May be harmful if swallowed, in contact with skin or if inhaled. May be harmful if swallowed and enters airways. Causes serious eye irritation. May damage the unborn child. May cause damage to organs through prolonged or repeated



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Prote	Protection 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).			
Note	s to physician	:		cally and supportively.		
SECTION	15. FIRE-FIGHTING ME	ASL	JRES			
Suita	able extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical			
Unsı med	uitable extinguishing	:	High volume wate	er jet		
Spec	Specific hazards during fire fighting		fire. Flash back possik Vapors may form	d water stream as it may scatter and spread ole over considerable distance. explosive mixtures with air. pustion products may be a hazard to health.		
Haza ucts	ardous combustion prod-	:	Carbon oxides Chlorine compour Fluorine compour Nitrogen oxides (l	nds		
Spec ods	cific extinguishing meth-	:	cumstances and t Use water spray t	I measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do		
	cial protective equipment re-fighters	:	In the event of fire	e, wear self-contained breathing apparatus. tective equipment.		
SECTION	I 6. ACCIDENTAL RELE	AS	E MEASURES			
tive e	onal precautions, protec- equipment and emer-	:	Remove all source Ventilate the area	-		

tive equipment and emer- gency procedures	Ventilate the area. 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	Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with a water spray jet.



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		containment to can be pumper container. Clean up rema absorbent. Local or nation disposal of this employed in th determine white Sections 13 ar	s, provide diking or other appropriate b keep material from spreading. If diked material d, store recovered material in appropriate anining materials from spill with suitable nal regulations may apply to releases and s material, as well as those materials and items the cleanup of releases. You will need to ch regulations are applicable. Ind 15 of this SDS provide information regarding r national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	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. 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.
Conditions for safe storage	:	Keep in properly labeled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Flammable solids Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures Substances and mixtures which in contact with water emit flammable gases Explosives



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Gases

Very acutely toxic substances and mixtures

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
N,N-Dimethylacetamide	127-19-5	CMP	10 ppm	AR OEL
	Further inform	ation: Skin		
		TWA	10 ppm	ACGIH
Fluralaner	864731-61-3	TWA	100 μg/m3 (OEB 2)	Internal
	Further inform	ation: Skin		Ĩ
		Wipe limit	1000 µg/100 cm ²	Internal
Acetone	67-64-1	CMP	500 ppm	AR OEL
	Further inform	ation: A4 - Not c	lassifiable as a huma	n carcinogen
		CMP - CPT	750 ppm	AR OEL
	Further inform	ation: A4 - Not classifiable as a human carcinogen		
		TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH
Moxidectin	113507-06-5	TWA	10 µg/m3 (OEB 3)	Internal
		Wipe limit	100 µg/100 cm²	Internal
2,6-Di-tert-butyl-p-cresol	128-37-0	CMP (Va-	2 mg/m ³	AR OEL
		pour and		
		aerosol, in-		
		halable frac-		
		tion)		
	Further inform		lassifiable as a huma	<u> </u>
		TWA	2 mg/m ³	ACGIH
		(Inhalable		
		fraction and		
		vapor)		

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
N,N-Dimethylacetamide	127-19-5	N- methylaceta mide	Urine	after the last shift of the last day of the work week	30 mg/g creatinine	AR BEI
		N- Methylaceta mide	Urine	End of shift at end of work- week	30 mg/g creatinine	ACGIH BEI



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Aceto	one	67-64-1	Acetone	Urine	End of shift	50 mg/l	AR BEI
			Acetone	Urine	End of shift (As soon as possible after exposure ceases)	25 mg/l	ACGIH BEI
Engir	neering measures	t 	Use appropriate echnologies to ess quick conn All engineering design and ope protect product Containment te are required to he compound containment de Minimize open	control airbo ections). controls sho rated in acc s, workers, a chnologies s control at so to uncontroll vices).	orne concent ould be impler ordance with and the enviro suitable for co ource and to p	rations (e.g., mented by fa GMP princip onment. ontrolling cor orevent migra	drip- icility iles to npounds
			Use explosion- equipment.	proof electric	cal, ventilating	g and lighting)
Perso	onal protective equ	uipment					
Fil	iratory protection Iter type protection	e	f adequate loca exposure assest ecommended Self-contained	ssment dem guidelines, ι	onstrates exp use respirator	osures outsi	de the
Ma	aterial	: (Chemical-resist	tant gloves			
Re	emarks	f	Consider doubl lammable, whi protection.				is
Eye p	protection	: \ 	Wear safety gla f the work envi nists or aeroso Wear a faceshi potential for dire aerosols.	ronment or a ls, wear the eld or other	activity involve appropriate o full face prote	es dusty con goggles. ection if there	is a
Skin a	and body protection	: \ / t	Work uniform o Additional body ask being perfe disposable suite Jse appropriate contaminated c	garments s ormed (e.g., s) to avoid e e degowning	hould be use sleevelets, a xposed skin s	pron, gauntle surfaces.	ets,
Hygiene measures : If exposure to c eye flushing sy working place. When using do Wash contamin The effective of engineering con				hemical is li stems and s not eat, drin ated clothin peration of a	afety showers nk or smoke. g before re-us i facility shoul	s close to the se. d include rev	e view of



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				wining and decontamination procedures, e monitoring, medical surveillance and the ative controls.
SECTION	9. PHYSICAL AND CHE	ΞΜΙ	CAL PROPERTIE	S
Appe	arance	:	liquid	
Color		:	Colorless to pale	e yellow
Odor		:	No data availab	e
Odor	Threshold	:	No data availab	e
pН		:	No data availab	e
Meltir	ng point/freezing point	:	No data availab	e
Initial range	boiling point and boiling	:	No data availab	e
Flash	point	:	2 °C	
			Method: closed	cup
Evap	oration rate	:	No data availab	e
Flam	mability (solid, gas)	:	Not applicable	
Flam	mability (liquids)	:	Not applicable	
	r explosion limit / Upper nability limit	:	No data availab	e
	r explosion limit / Lower nability limit	:	No data availab	e
Vapo	r pressure	:	No data availab	e
Relat	ive vapor density	:	No data availab	e
Relat	ive density	:	1,06	
Dens	ity	:	1,08 g/cm ³	
	ility(ies) ater solubility	:	No data availab	e
	ion coefficient: n-	:	Not applicable	
	ol/water gnition temperature	:	No data availab	e
Deco	mposition temperature	:	No data availab	e



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	scosity, kinematic		7,5 mm²/s	
Explo	sive properties	: 1	Not explosive	
Oxidiz	zing properties	: 1	The substance c	r mixture is not classified as oxidizing.
	le characteristics le size	: 1	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. Highly 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	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

Acute toxicity

May be harmful if swallowed, in contact with skin or if inhaled.

Product:

Acute oral toxicity	:	Acute toxicity estimate: 3.518 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 5,3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: 2.827 mg/kg Method: Calculation method
Components:		
N,N-Dimethylacetamide:		

i i ji i Dinioti ji acciani aci		
Acute oral toxicity	:	LD50 (Rat): 4.800 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 2,2 mg/l Exposure time: 4 h Test atmosphere: dust/mist



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Acu	te dermal toxicity	:	Method: Exper	estimate: 1.100 mg/kg t judgment ed on national or regional regulation.
Flur	ralaner:			
Acu	te oral toxicity	:		2.000 mg/kg nortality observed at this dose. adverse effects were reported
Acu	te dermal toxicity	:	LD50 (Rat): > 2 Remarks: No s	2.000 mg/kg ignificant adverse effects were reported
	y(oxy-1,2-ethanediyl), o te oral toxicity	(-[(te t	LD50 (Rat, fem Method: OECD	nyl)methyl]-ω-hydroxy-: nale): > 2.000 mg/kg 0 Test Guideline 423 ed on data from similar materials
 N,N	-Diethyl-m-toluamide:			
	te oral toxicity	:	LD50 (Rat): 1.8	392 mg/kg
Acu	te inhalation toxicity	:	LC50 (Rat): 5,9 Exposure time: Test atmosphe	4 h
Acu	te dermal toxicity	:	LD50 (Rat): 5.0)00 mg/kg
II Ace	etone:			
	te oral toxicity	:	LD50 (Rat): 5.8	300 mg/kg
Acu	te inhalation toxicity	:	LC50 (Rat): 76 Exposure time: Test atmosphe	4 ĥ
Acu	te dermal toxicity	:	LD50 (Rabbit):	7.426 mg/kg
Mo>	kidectin:			
Acu	te oral toxicity	:	LD50 (Rat): 10	6 mg/kg
			LD50 (Mouse):	42 - 84 mg/kg
Acu	te inhalation toxicity	:	LC50 (Rat): 3,2 Exposure time: Test atmosphe	5 h
			LC50 (Rat): 2,8 Test atmosphe	
Acu	te dermal toxicity	:	LD50 (Rabbit): Remarks: No s	> 2.000 mg/kg ignificant adverse effects were reported

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	e toxicity (other routes of nistration)	:	LD50 (Rat): 394 n Application Route	
			LD50 (Mouse): 84 Application Route	
			LD50 (Rat): > 640 Application Route	
			LD50 (Mouse): 26 Application Route	
11 2,6-D	Di-tert-butyl-p-cresol:			
Acute	e oral toxicity	:	LD50 (Rat): > 6.00 Method: OECD To	
Acute	e dermal toxicity	:	LD50 (Rat): > 2.00 Method: OECD To Assessment: The toxicity	00 mg/kg est Guideline 402 substance or mixture has no acute dermal
Skin	corrosion/irritation			
	classified based on availa	able	information.	
	ponents:			
N,N-	Dimethylacetamide:		Rabbit	
Resu		:	No skin irritation	
Flura	alaner:			
Spec Resu		:	Rabbit No skin irritation	
Poly	(oxy-1,2-ethanediyl), α-	[(tet	rahydro-2-furanyl)methyl]-ω-hydroxy-:
Spec		:		nan epidermis (RhE)
Meth Rem		÷	OECD Test Guide Based on data fro	eline 439 m similar materials
Resu	ılt	:	No skin irritation	
N.N-	Diethyl-m-toluamide:			
Spec	•	:	Rabbit	
Resu		:	No skin irritation	
Acet				
Asse	essment	:	Repeated exposu	re may cause skin dryness or cracking.
	idectin:			
Spec	cies	:	Rabbit	



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Resul	t	: Mild skin irritation				
2,6-Di	-tert-butyl-p-cresol:					
Speci	es	: Rabbit				
Metho	od	: OECD Test Guideline 404				
Resul		No skin irritation				
Rema	rks	: Based on data from similar materials				
Serio	us eye damage/eye i	ritation				
Cause	es serious eye irritation).				
<u>Comp</u>	oonents:					
N,N-D	imethylacetamide:					
Speci		: Rabbit				
Resul	t	: Irritation to eyes, reversing within 21 days				
Flura	aner:					
Speci	es	: Rabbit				
Resul	t	: Mild eye irritation				
Poly(oxy-1,2-ethanediyl),	x-[(tetrahydro-2-furanyl)methyl]-ω-hydroxy-:				
Speci	es	: Tissue Culture				
Metho		: OECD Test Guideline 492				
Rema	rks	: Based on data from similar materials				
Speci		: Bovine cornea				
Metho		: OECD Test Guideline 437				
Rema	rks	: Based on data from similar materials				
Resul	t	: Irritation to eyes, reversing within 21 days				
N,N-D)iethyl-m-toluamide:					
Speci	es	: Rabbit				
Resul		: Irritation to eyes, reversing within 21 days				
Rema	rks	: Based on national or regional regulation.				
Aceto	one:					
Speci	es	: Rabbit				
Resul		: Irritation to eyes, reversing within 21 days				
Metho	od	: OECD Test Guideline 405				
Moxic	lectin:					
Speci		: Rabbit				
Resul	t	: Moderate eye irritation				
2,6-Di	-tert-butyl-p-cresol:					
Speci		: Rabbit				
Resul		: No eye irritation				



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Metho			Guideline 405
Rema	ITKS	: Based on da	ata from similar materials
Resp	iratory or skin sensi	tization	
-	sensitization assified based on ava	ailable information.	
-	iratory sensitization assified based on ava		
Comp	oonents:		
N,N-C)imethylacetamide:		
	s of exposure	: Skin contact	
Speci Resul		: Guinea pig : negative	
INCOU	l de la construcción de la constru	. negative	
Flura			
Test 1	Type es of exposure	: Maximizatio	n Test
Speci	es of exposure	: Dermal : Guinea pig	
Resul		: Not a skin s	ensitizer.
Test 1 Metho Resul Rema	ype od t ırks	: KeratinoSen : OECD Test : negative : Based on da	Guideline 442D ata from similar materials
Test T Metho			de Reactivity Assay (DPRA) Guideline 442C
Resul		: positive	
Rema	irks		ata from similar materials
Test 1			Il activation test
Metho Resul			Guideline 442E
Resul		: negative : Based on da	ata from similar materials
Aceto	one:		
Test 1		: Maximizatio	n Test
Route	s of exposure	: Skin contact	:
Speci Resul		: Guinea pig : negative	
	-		
	dectin:		
Test T Route	ype s of exposure	: Buehler Tes : Dermal	τ
Speci		: Guinea pig	
Resul	t	: Not a skin s	ensitizer



5)
in vivo)
5)
5)
5)
est
in viv



rsion .0	Revision Date: 06.07.2024	SDS Number: 657369-00024	
		Test Type Result: ne	Bacterial reverse mutation assay (AMES) gative
		Test Type Result: ne	Chromosome aberration test in vitro gative
Geno	toxicity in vivo	cytogeneti Species: N	Nouse n Route: Ingestion
Moxid	dectin:		
Geno	toxicity in vitro	: Test Type Result: ne	Bacterial reverse mutation assay (AMES) gative
			In vitro mammalian cell gene mutation test m: Chinese hamster ovary cells gative
			in vitro test m: Escherichia coli gative
Geno	Genotoxicity in vivo	Species: F	Bone marrow
			Liver cells
2.6-D	i-tert-butyl-p-cresol	:	
	toxicity in vitro		Bacterial reverse mutation assay (AMES) gative
		Test Type Result: ne	In vitro mammalian cell gene mutation test gative
		Test Type Result: ne	Chromosome aberration test in vitro gative
Geno	toxicity in vivo	cytogeneti Species: F	n Route: Ingestion

Carcinogenicity

Not classified based on available information.



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N,N-D Specie Applic	ation Route sure time	: Rat : inhalation (vapo : 18 month(s) : negative	or)
Flural	aner:		
Carcir ment	nogenicity - Assess-	: No data availab	le
N,N-D Specie Applic	ation Route sure time	: Rat : Ingestion : 104 weeks : negative	
	es ation Route sure time	: Mouse : Skin contact : 424 days : negative	
Specie Applic	ation Route sure time L t	: Mouse : Oral : 2 Years : 4,5 mg/kg body : negative : Rat	weight
Applic	ation Route sure time EL	: Oral : 2 Years : 4,5 mg/kg body : negative	weight
	ation Route sure time L	: Dog : Oral : 1 Years : 0,5 mg/kg body : negative	weight
Specie Applic	ation Route sure time	: Rat : Ingestion : 22 Months : negative	

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Repr	oductive toxicity			
May o	damage the unborn child	Ι.		
Com	ponents:			
N,N-E	Dimethylacetamide:			
Effect	ts on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study
Effect	ts on fetal development	:	Test Type: Embry Species: Rat Application Route Result: positive	ro-fetal development : Inhalation
Repro sessn	oductive toxicity - As- nent	:	Clear evidence of animal experimen	adverse effects on development, based on tts.
Flura	laner:			
Effect	ts on fertility	:	General Toxicity I	
			Species: Dog Application Route Fertility: NOAEL: Result: No effects ment were detect	75 mg/kg body weight s on fertility and early embryonic develop-
Effect	ts on fetal development	:	Result: Embryoto	: Oral oxicity: NOAEL: 100 mg/kg body weight xic effects and adverse effects on the off- ted only at high maternally toxic doses, No
			Result: Skeletal n	
			Test Type: Develor Species: Rabbit Application Route Developmental To	



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П			Result: Skeletal m	nalformations.
Repro	oductive toxicity - As- nent	:	Suspected of dam	naging the unborn child.
N,N-D	Diethyl-m-toluamide:			
Effect	s on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	ro-fetal development : Ingestion
Aceto	NO:			
	s on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
Effect	s on fetal development	:	Species: Rat	ro-fetal development : inhalation (vapor)
Moxie	dectin:			
	is on fertility	:	Species: Rat Application Route General Toxicity F Symptoms: Redu Result: No effects	eneration reproduction toxicity study : Oral F1: LOAEL: 0,8 mg/kg body weight ced fetal weight., Fetal mortality. on fertility., Some evidence of adverse ef- nent, based on animal experiments.
			Species: Rat Application Route General Toxicity F Symptoms: Redu Result: No effects	generation reproduction toxicity study : Oral F1: LOAEL: 0,8 mg/kg body weight ced fetal weight., Fetal mortality. on fertility., Some evidence of adverse ef- nent, based on animal experiments.
Effect	s on fetal development	:	Species: Rat Application Route General Toxicity I Embryo-fetal toxic Result: Skeletal m	Maternal: LOAEL: 10 mg/kg body weight :ity.: LOAEL: 10 mg/kg body weight
			Species: Rabbit Application Route General Toxicity Developmental To	ro-fetal development : Oral Maternal: LOAEL: 5 mg/kg body weight oxicity: NOAEL: 10 mg/kg body weight genic effects., No embryotoxic effects.



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Repro sessn	oductive toxicity - As- nent	:	Some evidence animal experime	of adverse effects on development, based on ents.
 2,6-D	i-tert-butyl-p-cresol:			
'	s on fertility	:	Test Type: Two- Species: Rat Application Rout Result: negative	
Effect	s on fetal development	:	Test Type: Emb Species: Rat Application Rout Result: negative	
	-single exposure lassified based on availa	able	information.	
<u>Comp</u>	oonents:			
Aceto	one:			
Asses	ssment	:	May cause drow	vsiness or dizziness.
Comp Moxid Targe	oonents: dectin: et Organs ssment	:	Central nervous	stem) through prolonged or repeated exposur system to organs through prolonged or repeated
	i-tert-butyl-p-cresol: ssment	:	No significant he tions of 100 mg/	ealth effects observed in animals at concentra kg bw or less.
Repe	ated dose toxicity			
-	oonents:			
	Dimethylacetamide:			
Speci NOAE LOAE Applic	es EL	· · · · · · · · · · · · · · · · · · ·	Rat 90 mg/m³ 360 mg/m³ inhalation (vapor 24 Months	r)
Speci NOAE		:	Dog 1 mg/kg Oral	



Exposure time # 52 Weeks Target Organs # Uver Remarks # No significant adverse effects were reported Species # Juvenile dog LADEL # 56 - 280 mg/kg Application Route # 24 Weeks Symptoms # Darthea LOAEL # 400 mg/kg Application Route # 001 Exposure time # 000 mg/kg Application Route # 001 Exposure time # 000 mg/kg Application Route # 000 mg/kg Application Route # 000 mg/kg Application Route # Do Pays Target Organs # Uver NOAEL # 000 mg/kg Application Route # Do Days Target Organs # Uver Remarks M Notel MOAEL # 000 mg/kg Application Route # Ingestion Exposure time # 90 Days Route # Angelication Route NOAEL	Version 10.0	Revision Date: 06.07.2024	SDS Number: 657369-00024	Date of last issue: 13.04.2024 Date of first issue: 02.05.2016
LÓAEL : 56 - 280 mg/kg Application Route : Oral Exposure time : 24 Weeks Symptoms : Diarrhea Species : Rat LOAEL : 400 mg/kg Application Route : Oral Exposure time : 90 Days Target Organs : Liver, thymus gland Species : Rat NOAEL : 500 mg/kg Application Route : Dermal Exposure time : 90 Days Target Organs : Liver, thymus gland Acetone: Species : Rat NOAEL : 500 mg/kg Application Route : Dermal Exposure time : 90 Days Target Organs : Liver Remarks : No significant adverse effects were reported Acetone: Species : Rat NOAEL : 1700 mg/kg Application Route : Ingestion Exposure time : 90 Days Species : Rat NOAEL : 45 mg/l Application Route : Ingestion Exposure time : 90 Days Species : Rat NOAEL : 45 mg/l Application Route : Inhalation (vapor) Exposure time : 8 Weeks Moxidectin: Species : Rat NOAEL : 30 mg/kg LOAEL : 31 f.4 mg/kg Application Route : Oral Exposure time : 4 Weeks Symptoms : Tremors Species : Rat NOAEL : 39 mg/kg LOAEL : 39 mg/kg LOAEL : 39 mg/kg Application Route : Oral Exposure time : 4 Weeks Symptoms : Tremors Species : Rat NOAEL : 39 mg/kg LOAEL : 39 mg/kg Application Route : Oral Exposure time : 0 Oral Exposure time : 113 Weeks Target Organs : Central nervous system Symptoms : Tremors, Salivation Species : Dog NOAEL : 0,9 mg/kg	Target	t Organs	: Liver	dverse effects were reported
LOAEL : 400 mg/kg Application Route : 0 Oral Exposure time : 90 Days Target Organs : Liver, thymus gland Species : Rat NOAEL : 500 mg/kg Application Route : Dermal Exposure time : 90 Days Target Organs : Liver Remarks : No significant adverse effects were reported Acetone: : Species : Rat NOAEL : 900 mg/kg LOAEL : 1.700 mg/kg Application Route : Ingestion Exposure time : 90 Days Species : Rat NOAEL : 1.700 mg/kg Application Route : Ingestion Exposure time : 90 Days Species : Rat NOAEL : 1.700 mg/kg Application Route : Indication (vapor) Exposure time : 8 Weeks Moxidectin: : Species : Mouse NOAEL : 3.9 mg/kg NOAEL : 3.9 mg/kg NOAEL	LÒAE Applic Expos	L ation Route ure time	: 56 - 280 mg/kg : Oral : 24 Weeks	
NOAEL :: 500 mg/kg Application Route :: Dermal Exposure time :: 90 Days Target Organs :: Liver Remarks :: No significant adverse effects were reported Acetone: :: Species :: Species :: Rat NOAEL :: 900 mg/kg LOAEL :: 900 mg/kg LOAEL :: 900 mg/kg LOAEL :: 900 pays Species :: Rat NOAEL :: 90 Days Species : Rat NOAEL :: 90 Days Species : Rat NOAEL :: 45 mg/l Application Route : inhalation (vapor) Exposure time : 8 Weeks NOAEL : 3.9 mg/kg LOAEL : 1.5,4 mg/kg Application Route : Oral Exposure time : 4 Weeks Symptoms	LÒAE Applic Expos	L ation Route ure time	: 400 mg/kg : Oral : 90 Days	and
Species : Rat NOAEL : 900 mg/kg LOAEL : 1.700 mg/kg Application Route : Ingestion Exposure time : 90 Days Species : Rat NOAEL : 45 mg/l Application Route : inhalation (vapor) Exposure time : 8 Weeks Moxidectin: . Species : Mouse NOAEL : 3.9 mg/kg LOAEL : 15.4 mg/kg Application Route : 0ral Exposure time : 4 Weeks Symptoms : Tremors Species : Rat NOAEL : 3.9 mg/kg LOAEL : 15.4 mg/kg Application Route : Oral Exposure time : 4 Weeks Symptoms : Tremors Species : Rat NOAEL : 3.9 mg/kg LOAEL : 7.9 mg/kg Application Route : Oral Exposure time : 13 Weeks Target Organs : Central nervous system Symptoms : Tremors, Salivation	NOAE Applic Expos Targe	L ation Route ure time t Organs	500 mg/kg Dermal 90 Days Liver	dverse effects were reported
NOAEL : 45 mg/l Application Route : inhalation (vapor) Exposure time : 8 Weeks Moxidectin:	Specie NOAE LOAE Applic	es L L ation Route	: 900 mg/kg : 1.700 mg/kg : Ingestion	
Species:MouseNOAEL:3,9 mg/kgLOAEL:15,4 mg/kgApplication Route:OralExposure time:4 WeeksSymptoms:TremorsSpecies:RatNOAEL:3,9 mg/kgLOAEL:7,9 mg/kgLOAEL:7,9 mg/kgApplication Route:OralExposure time:13 WeeksTarget Organs:Central nervous systemSymptoms:Tremors, SalivationSpecies:DogNOAEL:0,3 mg/kgLOAEL:0,9 mg/kg	NOAE Applic	L ation Route	: 45 mg/l : inhalation (vapo	r)
NOAEL : 3,9 mg/kg LOAEL : 7,9 mg/kg Application Route : Oral Exposure time : 13 Weeks Target Organs : Central nervous system Symptoms : Tremors, Salivation Species : 0,3 mg/kg LOAEL : 0,9 mg/kg	Specie NOAE LOAE Applic Expos	es L L ation Route ure time	: 3,9 mg/kg : 15,4 mg/kg : Oral : 4 Weeks	
NOAEL : 0,3 mg/kg LOAEL : 0,9 mg/kg	NOAE LOAE Applic Expos Targe	L L ation Route ure time t Organs	: 3,9 mg/kg : 7,9 mg/kg : Oral : 13 Weeks : Central nervous	
	NOAE	Ľ	: 0,3 mg/kg : 0,9 mg/kg	



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Expos	cation Route sure time t Organs toms	: Oral : 90 Days : Central nervou : Tremors, Lach	is system rymation, Salivation
Expos	EL cation Route sure time t Organs	: Dog : 1,15 mg/kg : Oral : 52 Weeks : Central nervou : Tremors, Lach	
2,6-Di	i-tert-butyl-p-cresol:		
Speci NOAE Applic	es	: Rat : 25 mg/kg : Ingestion : 22 Months	
-	ation toxicity he harmful if swallowed	and enters airways.	
<u>Comp</u>	oonents:		
Flural	laner: oplicable		
Aceto	one:		
The s		uses concern owing	to the assumption that it causes a human aspi-
Expe	rience with human ex	posure	
-	oonents:		
Flural			
Skin c		: Remarks: May	irritate skin
Eye c			r cause eye irritation.
Moxic	dectin:		
Inhala			numan information is available.
	contact ontact		numan information is available. numan information is available.
Ingest			numan information is available.
SECTION	12. ECOLOGICAL INF	ORMATION	
Ecoto	oxicity		
<u>Comp</u>	oonents:		

N,N-Dimethylacetamide:

Toxicity to fish

: LC50 (Leuciscus idus (Golden orfe)): > 500 mg/l Exposure time: 96 h

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rsion 0	Revision Date: 06.07.2024		9S Number: 7369-00024	Date of last issue: 13.04.2024 Date of first issue: 02.05.2016
	ty to daphnia and other ic invertebrates	:	Exposure time: 48	agna (Water flea)): > 500 mg/l 3 h 67/548/EEC, Annex V, C.2.
Toxici plants	ty to algae/aquatic	:	EC50 (Desmodes Exposure time: 72	mus subspicatus (green algae)): > 500 mg 2 h
			EC10 (Desmodes Exposure time: 72	mus subspicatus (green algae)): > 500 mg 2 h
Toxici	ty to microorganisms	:	EC10: > 1.995 mg Exposure time: 30	
Flura	laner:			
	ty to fish	:	Exposure time: 96 Method: OECD Te	
	ty to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD Te	
Toxici plants	ty to algae/aquatic	:	0,08 mg/l Exposure time: 72 Method: OECD To	
Toxici icity)	ty to fish (Chronic tox-	:	NOEC (Zebrafish) Exposure time: 21 Method: OECD To Remarks: No toxid	ld
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
M-Fac toxicit	ctor (Chronic aquatic y)	:	1.000	
	oxy-1,2-ethanediyl), α-			
	ty to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD Te	
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD To	



rsion .0	Revision Date: 06.07.2024		9S Number: 7369-00024	Date of last issue: 13.04.2024 Date of first issue: 02.05.2016
			mg/l Exposure time: 72 Method: OECD To	
N,N-C	Diethyl-m-toluamide:			
Toxici	ity to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48	hagna (Water flea)): 75 mg/l 3 h
Toxici plants	ity to algae/aquatic	:	ErC50 (Selenastro Exposure time: 72 Method: OECD To	
			NOEC (Selenastr Exposure time: 72 Method: OECD Te	
	ic invertebrates (Chron-		NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 3,7 mg/l I d
Aceto	one:			
Toxici	ity to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 5.540 mg/l ଚ h
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia p Exposure time: 48	ulex (Water flea)): 8.800 mg/l 3 h
Toxici plants	ity to algae/aquatic	:	NOEC (Pseudokii mg/l Exposure time: 96	rchneriella subcapitata (green algae)): 7.00 S h
	ity to daphnia and other ic invertebrates (Chron- city)		NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
Toxici	ity to microorganisms	:	EC50: 61.150 mg Exposure time: 30 Method: ISO 8192) min
II Moxic	dectin:			
	ity to fish	:	LC50 (Lepomis m Exposure time: 96 Method: OECD Te	
			LC50 (Oncorhync Exposure time: 96 Method: OECD To	hus mykiss (rainbow trout)): 0,0002 mg/l 5 h est Guideline 203

SAFETY DATA SHEET



rsion .0	Revision Date: 06.07.2024		9S Number: 7369-00024	Date of last issue: 13.04.2024 Date of first issue: 02.05.2016
	y to daphnia and other c invertebrates	:	Exposure time: 4	nagna (Water flea)): 0,00003 mg/l 8 h ⁻ est Guideline 202
Toxicit plants	y to algae/aquatic	:	mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 0,087 2 h Fest Guideline 201
M-Fac icity)	tor (Acute aquatic tox-	:	10.000	
	tor (Chronic aquatic	:	10.000	
,	-tert-butyl-p-cresol:			
	y to fish	:	Exposure time: 9	o (zebra fish)): > 0,57 mg/l 6 h e 67/548/EEC, Annex V, C.1.
	y to daphnia and other c invertebrates	:	Exposure time: 4	nagna (Water flea)): 0,48 mg/l 8 h Test Guideline 202
Toxicit plants	y to algae/aquatic	:	mg/l Exposure time: 7	irchneriella subcapitata (green algae)): > 0,3 2 h Fest Guideline 201
			mg/l Exposure time: 7	irchneriella subcapitata (green algae)): 0,24 2 h Fest Guideline 201
M-Fac icity)	tor (Acute aquatic tox-	:	1	
	y to fish (Chronic tox-	:	Exposure time: 3	atipes (Japanese medaka)): 0,053 mg/l 0 d Test Guideline 210
	y to daphnia and other c invertebrates (Chron- sity)	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 0,316 mg/l 1 d
	tor (Chronic aquatic	:	1	
	y to microorganisms	:	EC50: > 10.000 i Exposure time: 3 Method: OECD 1	0
II Persis	stence and degradabili	ity		
	onents:	-		



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			Exposure time: 28 Remarks: The 10	8 d day time window criterion is not fulfilled.
Poly(oxy-1,2-ethanediyl), α	-[(te	trahydro-2-furany	l)methyl]-ω-hydroxy-:
	egradability	:	Result: Not readil Method: OECD T	
 N,N-E	Diethyl-m-toluamide:			
	egradability	:	Result: Readily bi Biodegradation: Exposure time: 28 Method: OECD T	83,8 %
Aceto	one:			
Biode	egradability	:	Result: Readily bi Biodegradation: Exposure time: 28	91 %
 2,6-D	i-tert-butyl-p-cresol:			
	egradability	:	Result: Not readil Biodegradation: Exposure time: 28 Method: OECD T	4,5 %
Bioad	ccumulative potential			
Com	ponents:			
-	laner:			
	cumulation	:		h factor (BCF): 79,4 est Guideline 305
	ion coefficient: n- ol/water	:	log Pow: 4,5	
Poly(oxy-1,2-ethanediyl), α	-[(te	trahydro-2-furany	l)methyl]-ω-hydroxy-:
	ion coefficient: n- ol/water	:	log Pow: < 4 Remarks: Calcula	ation
N,N-E	Diethyl-m-toluamide:			
Partit	ion coefficient: n- ol/water	:	log Pow: 2,02	
Aceto	one:			
	ion coefficient: n- ol/water	:	log Pow: -0,27	0,23
	dectin:			
	ion coefficient: n- ol/water	:	log Pow: 4,7	



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2,6-D)i-tert-butyl-p-cresol:				
Bioaccumulation		:	Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 330 - 1.800		
	Partition coefficient: n- octanol/water		log Pow: 5,1		
Mobi	lity in soil				
Com	ponents:				
Flura	laner:				
	Distribution among environ- mental compartments		log Koc: 4,1		
Othe	Other adverse effects				
Com	ponents:				
Resu	llaner: lts of PBT and vPvB ssment	:	Substance is no	t persistent, bioaccumulative, and toxic (PBT).	

SECTION 13. DISPOSAL CONSIDERATIONS

Dis	ро	sal	methods	

Waste from residues	: Do not dispose of waste into sewer. Dispose of in accordance with local regulations.	
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 death. If not otherwise specified: Dispose of as unused product. 	l/or

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 1090
Proper shipping name	:	ACETONE SOLUTION
Class	:	3
Packing group	:	Ű.
Labels	÷	3
Environmentally hazardous	÷	no
-	•	
IATA-DGR		
UN/ID No.	:	UN 1090
Proper shipping name	:	Acetone solution
Class	:	3
Packing group	:	11
Labels	:	Flammable Liquids
Packing instruction (cargo		364
r dolang motraodon (odigo	•	001



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F	aircraft) Packing ger airc	instruction (passen-	:	353	
IMDG-Code UN number Proper shipping name		:	UN 1090 ACETONE SOLU (Fluralaner, Moxic		
Class Packing group		:	3 		
L	_abels		:	3	
_	EmS Co Marine	ode pollutant	:	F-E, S-D yes	

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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/legislation specific for the substance or mixture

Argentina. Carcinogenic Substances and Agents : Not applicable Registry.

Control of precursors and essential chemicals for the : Not applicable preparation of drugs.

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	:	06.07.2024
Date format	:	dd.mm.yyyy

Further information

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/

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



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Full t	ext of other abbrevia	ations				
ACGIH ACGIH BEI AR BEI AR OEL		: ACGIH - Biolo : Argentina. Bio	 USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) Argentina. Biological Exposure Indices Argentina. Occupational Exposure Limits 			
ACGIH / TWA ACGIH / STEL AR OEL / CMP AR OEL / CMP - CPT		: Short-term ex : TLV (Thresho	 8-hour, time-weighted average Short-term exposure limit TLV (Threshold Limit Value) STEL (Short Term 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;						

d with 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 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.

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