

Vers 5.3	sion	Revision Date: 28.09.2024		5 Number: 2478-00017	Date of last issue: 26.06.2024 Date of first issue: 02.07.2018	
SEC	TION 1 Produc	: IDENTIFICATION t name	:	Deltamethrin (wit	h Xylene) Formulation	
	Manufa	acturer or supplier's d	etai	ls		
	Compa	ny	:	Intervet Australia	Pty Limited (trading as MSD Animal Health)	
	Address		:	91-105 Harpin Street Bendigo 3550, Victoria Austrailia		
	Telepho	one	:	1 800 033 461		
	Emerge	ency telephone number	:	Poisons Informat	ion Centre: Phone 13 11 26	
	E-mail	address	:	EHSDATASTEW	ARD@msd.com	
	Recom	mended use of the ch	nemi	cal and restrictio	ons on use	
		mended use tions on use	:	Veterinary produc Not applicable	ct	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Flammable liquids		Category 3
	•	Category 5
Acute toxicity (Oral)	:	Category 4
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irri- tation	:	Category 2A
Skin sensitisation	:	Category 1
Germ cell mutagenicity	:	Category 1B
Carcinogenicity	:	Category 1B
Reproductive toxicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 2
Aspiration hazard	:	Category 1



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	label elements rd pictograms	:	
Signa	al word	: Danger	
Haza	rd statements	H302 Harmful H304 May be H315 Causes H317 May cau H319 Causes H335 May cau H340 May cau H350 May cau H361fd Suspe ing the unborn	fatal if swallowed and enters airways. skin irritation. ise an allergic skin reaction. serious eye irritation. ise respiratory irritation. ise genetic defects. ise cancer. cted of damaging fertility. Suspected of damag- child. ise damage to organs through prolonged or re-
Preca	autionary statements	P202 Do not h and understoo P210 Keep aw and other ignit P233 Keep co P241 Use exp ment. P242 Use non P243 Take ac P260 Do not b P264 Wash sk P270 Do not e P271 Use only P272 Contami the workplace	vay from heat, hot surfaces, sparks, open flames ion sources. No smoking. ntainer tightly closed. losion-proof electrical/ ventilating/ lighting equip- -sparking tools. tion to prevent static discharges. reathe mist or vapours. tin thoroughly after handling. eat, drink or smoke when using this product. v outdoors or in a well-ventilated area. nated work clothing should not be allowed out of otective gloves/ protective clothing/ eye protec-
		CENTER/ doc P303 + P361 - Iy all contamin P304 + P340 - and keep com doctor if you fe P305 + P351 -	 + P353 IF ON SKIN (or hair): Take off immediate- ated clothing. Rinse skin with water. + P312 IF INHALED: Remove person to fresh air fortable for breathing. Call a POISON CENTER/



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easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P331 Do NOT induce vomiting.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

Storage:

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

Disposal:

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

Other hazards which do not result in classification

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours). Vapours may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Ethylbenzene	100-41-4	>= 30 -< 60
Xylene	1330-20-7	>= 30 -< 60
deltamethrin (ISO)	52918-63-5	>= 3 -< 10
2,6-Di-tert-butyl-p-cresol	128-37-0	< 10
Solvent naphtha (petroleum), light aromatic	64742-95-6	>= 0.1 -< 10
Methanol	67-56-1	< 1

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.



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In cas	se of eye contact	for at least 15 m If easy to do, rer	nove contact lens, if worn.			
If swallowed		Get medical attention. : If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control centre immediately. Rinse mouth thoroughly with water.				
	important symptoms offects, both acute and red	 Harmful if swalle May be fatal if sw Causes skin irrit May cause an al Causes serious May cause serious May cause gene May cause cano Suspected of da unborn child. May cause dama exposure. This product cor 	wallowed and enters airways. ation. Ilergic skin reaction. eye irritation. iratory irritation. etic defects. eer. maging fertility. Suspected of damaging the age to organs through prolonged or repeated intains a pyrethroid. ning should not be confused with carbamated			
Prote	ction of first-aiders	: First Aid respondent and use the reco	ders should pay attention to self-protection, ommended personal protective equipment ial for exposure exists (see section 8).			
Notes	s to physician	: Treat symptoma	tically and supportively.			

Suitable extinguishing media	:	Water spray 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. Vapours 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) Bromine 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
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	al protective equipment efighters		a. of fire, wear self-contained breathing apparatus. I protective equipment.			
	nem Code					
nazci	lem Code	: •3W				
SECTION	6. ACCIDENTAL RELE	ASE MEASURES	;			
tive e	onal precautions, protec- quipment and emer- / procedures	Use personal Follow safe h	ources of ignition. I protective equipment. andling advice (see section 7) and personal pro- ment recommendations (see section 8).			
Environmental precautions		Prevent furth Prevent sprea barriers). Retain and di Local authori	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 of barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.			
	ods and materials for inment and cleaning up	Soak up with Suppress (kn spray jet. For large spil ment to keep be pumped, s Clean up rem bent. Local or natio posal of this n employed in f mine which re Sections 13 a	g tools should be used. inert absorbent material. bock down) gases/vapours/mists with a water ls, provide dyking or other appropriate contain- material from spreading. If dyked material can store recovered material in appropriate container haining materials from spill with suitable absor- onal regulations may apply to releases and dis- material, as well as those materials and items the cleanup of releases. You will need to deter- egulations are applicable. and 15 of this SDS provide information regarding or national requirements.			
SECTION	7. HANDLING AND ST	ORAGE				
Techr	nical measures		ring measures under EXPOSURE PERSONAL PROTECTION section.			
Local	/Total ventilation	: If sufficient vertilation.	n-proof electrical, ventilating and lighting equip-			
Advic	e on safe handling	: Do not get or	n skin or clothing. ne mist or vapours. ow.			



Versio 5.3	on	Revision Date: 28.09.2024	SDS Number 2972478-000		Date of last issue: 26.06.2024 Date of first issue: 02.07.2018
ŀ	Hygiene measures		Handle ir practice, sessmen Non-spar Keep cor Already s to asthma should co tory irritat Keep awa other igni Take pred Do not ea Take care environm : If exposu flushing s place. When usi Contamir workplace Wash cou The effec engineeri appropria industrial	n thorough accorda based or t king tool ntainer tig sensitised a, allergie onsult the nts or sel ay from h ition sour cautional at, drink o e to prev ient. re to che systems a ing do no nated wo e. ntaminate ctive oper ing contru- te degov hygiene	ghly after handling. ance with good industrial hygiene and safety in the results of the workplace exposure as- s should be used. ghtly closed. d individuals, and those susceptible es, chronic or recurrent respiratory disease, eir physician regarding working with respira-
C	Conditio	ons for safe storage	: Keep in p Store lock Keep tigh Keep in a Store in a	properly l ked up. htly close a cool, we accordan	abelled containers.
Ν	<i>l</i> ateria	ls to avoid	: Do not st Self-reac Organic p Oxidizing Flammab Pyrophor Pyrophor	ore with tive subs peroxides agents ble gases ic liquids ic solids ing subs is gases	the following product types: stances and mixtures s

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components (CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
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		exposure)	concentration	
Ethylbenzene	100-41-4	TŴA	100 ppm	AU OEL
,			434 mg/m3	
		STEL	125 ppm	AU OEL
			543 mg/m3	
		TWA	20 ppm	ACGIH
Xylene	1330-20-7	TWA	80 ppm	AU OEL
			350 mg/m3	
		STEL	150 ppm	AU OEL
			655 mg/m3	
		TWA	20 ppm	ACGIH
deltamethrin (ISO)	52918-63-5	TWA	15 µg/m3 (OEB 3)	Internal
	Further inform	nation: DSEN, Sł	kin	
		Wipe limit	100 µg/100 cm ²	Internal
2,6-Di-tert-butyl-p-cresol	128-37-0	TWA	10 mg/m3	AU OEL
		TWA (Inhal-	2 mg/m3	ACGIH
		able fraction		
		and vapor)		
Solvent naphtha (petroleum), light aromatic	64742-95-6	TWA	900 mg/m3	AU OEL
		TWA	200 mg/m3	ACGIH
			(total hydrocarbon	
Methanol	67-56-1	TWA	vapor) 200 ppm	AU OEL
Methanoi	07-50-1	IVVA	262 mg/m3	AU OEL
	Eurther inform	ation: Skin abso		
		STEL	250 ppm	AU OEL
		JIEL	328 mg/m3	AU UEL
	Further inform	nation: Skin absc		1
		TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
			200 ppm	AGOIN

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Ethylbenzene	100-41-4	Sum of mandelic acid and phenyl gly- oxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	150 mg/g creatinine	ACGIH BEI
Xylene	1330-20-7	Methylhip- puric acids	Urine	End of shift (As soon as possible after exposure ceases)	0.3 g/g cre- atinine	ACGIH BEI



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Metha	anol	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposure ceases)	15 mg/l	ACGII BEI
Engin	eering measures	tı lı c F C a t t t	Jse appropriate echnologies to ess quick conn all engineering lesign and ope protect product Containment te are required to ne compound ainment device Ainimize open	control airbo ections). controls sho rated in acc s, workers, a chnologies s control at so to uncontroll es).	orne concentro 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- acility bles to mpounds ation of
			Jse explosion- nent.	proof electric	cal, ventilating	g and lighting	g equip-
Perso	onal protective equ	uipment					
Filt	ratory protection ter type protection	s	adequate loca ure assessme mmended gui Combined parti	nt demonstra delines, use	ates exposure respiratory p	es outside th rotection.	
	aterial	. (Chemical-resist	ant aloves			
				-			
Re	emarks		Consider doubl nable, which m				
Eye p	rotection	V : II V P	Vear safety gla the work envi nists or aeroso Vear a faceshi otential for dir erosols.	asses with si ronment or a ls, wear the eld or other	de shields or activity involve appropriate g full face prote	goggles. es dusty con joggles. ction if there	nditions, e is a
Skin a	and body protection	: V A ta F	Vork uniform o additional body ask being perfe osable suits) t Jse appropriate ontaminated c	garments s ormed (e.g., o avoid expo e degowning	hould be use sleevelets, a osed skin surf	pron, gauntle aces.	ets, dis-

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	clear
		yellow



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	Odour		:	No data available	9
	Odour T	Threshold	:	No data available	2
	рН		:	No data available)
	Melting	point/freezing point	:	No data available)
	Initial be range	oiling point and boiling	:	No data available	
	Flash p	oint	:	38 °C	
	Evapora	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available)
		explosion limit / Lower bility limit	:	No data available)
	Vapour	pressure	:	No data available	2
	Relative	e vapour density	:	No data available)
	Relative	e density	:	No data available	9
	Density		:	No data available	9
	Solubili Wate	ty(ies) er solubility	:	No data available	9
	Partition octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosit Visc	ty osity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.



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	Malagu			No doto ovoilable	
	woiecu	lar weight	-	No data available	
	Particle Particle	e characteristics e size	:	Not applicable	
SEC	TION 1	0. STABILITY AND RE	EAC	ΤΙνιτγ	
		rity cal stability lity of hazardous reac-	:	Stable under nor Flammable liquid Vapours may for	
	Incomp	ons to avoid atible materials ous decomposition ts	:	Heat, flames and Oxidizing agents No hazardous de	
SEC	TION 1	1. TOXICOLOGICAL I	NFC	ORMATION	
	Exposu	ire routes	:	Inhalation Skin contact Ingestion Eye contact	
		t oxicity I if swallowed.			
	<u>Produc</u>	<u>>t:</u>			
	Acute c	oral toxicity	:	Acute toxicity esti Method: Calculati	mate: 1,314 mg/kg on method
	Acute i	nhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati	h vapour
	Acute c	lermal toxicity	:	Acute toxicity esti Method: Calculati	mate: > 2,000 mg/kg on method
	Compo	onents:			
	Ethylbo	enzene:			
	-	oral toxicity	:	LD50 (Rat): 3,500	mg/kg
	Acute i	nhalation toxicity	:	LC50 (Rat): 17.8 Exposure time: 4 Test atmosphere:	h
	Acute c	lermal toxicity	:	LD50 (Rabbit): > \$	5,000 mg/kg



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	Xylene			LD50 (Dot): 2 522	malka
	Acute	oral toxicity	•	LD50 (Rat): 3,523 Method: Directive	67/548/EEC, Annex V, B.1.
	Acute i	nhalation toxicity	:	LC50 (Rat): 27.57 Exposure time: 4 Test atmosphere:	h
	Acute o	dermal toxicity	:	LD50 (Rabbit): > 4	1,200 mg/kg
	deltam	ethrin (ISO):			
	Acute o	oral toxicity	:	LD50 (Rat): 66.7 I	mg/kg
				LD50 (Rat): 9 - 13	9 mg/kg
				LD50 (Mouse): 19	- 34 mg/kg
	Acute i	nhalation toxicity	:	LC50 (Rat): 0.8 m Exposure time: 2 Test atmosphere:	ĥ
	Acute o	dermal toxicity	:	LD50 (Rabbit): 2,0	000 mg/kg
				LD50 (Rat): > 800	mg/kg
		oxicity (other routes of stration)	:	LD50 (Rat): 2.5 m Application Route	
				LD50 (Mouse): 10 Application Route	
	2,6-Di-	tert-butyl-p-cresol:			
	Acute o	oral toxicity	:	LD50 (Rat): > 6,00 Method: OECD Te	
	Acute o	dermal toxicity	:	LD50 (Rat): > 2,00 Method: OECD To Assessment: The toxicity	
	Solven	t naphtha (petroleum), lig	ght aromatic:	
	Acute o	oral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
	Acute i	nhalation toxicity	:	LC50 (Rat): > 5.6 Exposure time: 4 Test atmosphere:	h
	Acute o	dermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg



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Metha	anol:			
Acute	oral toxicity			stimate (Humans): 300 mg/kg judgement
Acute	inhalation toxicity	Expo Test Meth	osure time: atmospher nod: Expert	
Acute	dermal toxicity	Meth	nod: Expert	stimate: 300 mg/kg judgement d on national or regional regulation.
	corrosion/irritation es skin irritation.			
<u>Comp</u>	oonents:			
Xylen	e:			
Speci Resul		: Rabl : Skin	oit irritation	
deltar	nethrin (ISO):			
Speci Resul		: Rabl : No s	oit kin irritatioi	n
2,6-Di	i-tert-butyl-p-cresol:			
Speci	es	: Rabl		
Metho Resul			D Test Gu kin irritatio	ideline 404
Rema				from similar materials
Solve	nt naphtha (petroleu	m), light aı	romatic:	
Speci		: Rabl		
Metho Resul			irritation	ideline 404
Metha	anol:			
Speci Resul		: Rabl : No s	oit kin irritatior	n
Serio	us eye damage/eye i	ritation		



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Com	ponents:			
Xyler			D 11%	
Speci Resu		:	Rabbit Irritation to eyes	, reversing within 21 days
delta	methrin (ISO):			
Speci			Rabbit	
Resu		:	Moderate eye irr	itation
2,6-D	i-tert-butyl-p-cresol	:		
Speci		:	Rabbit	
Resu	Result		No eye irritation	
Method		:	OECD Test Guid	
Rema	arks	:	Based on data fi	rom similar materials
Solve	ent naphtha (petrole	um), li	ght aromatic:	
Speci		:	Rabbit	
Resu		:	No eye irritation	
Metho	bd	:	OECD Test Guid	deline 405
Meth				
Speci		:	Rabbit	
Resu	It	-	No eye irritation	
Resp	iratory or skin sens	itisatio	on	
Skin	sensitisation			
May o	cause an allergic skin	reaction	on.	
Resp	iratory sensitisatior	า		
-	lassified based on av		information.	
Com	ponents:			
Xyler	ne:			
Test ⁻		:	Local lymph nod	le assay (LLNA)
Expo	sure routes	:	Skin contact	
Speci		:	Mouse	
Deeu	lt	:	negative	
Resu				
	methrin (ISO):			
delta Test	Туре	:	Maximisation Te	st
delta Test ⁻ Expos	Type sure routes	:	Dermal	st
delta Test Expos Speci	Type sure routes ies	:	Dermal Guinea pig	st
delta Test ⁻ Expos	Type sure routes ies	:	Dermal	st
delta Test Expos Speci	Type sure routes les It		Dermal Guinea pig negative	st nsult patch test (HRIPT)



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Speci	es	: Humans	
Resul		: positive	
2,6-Di	i-tert-butyl-p-cresol:		
Test T			at insult patch test (HRIPT)
	sure routes	: Skin contact	
Speci Resul		: Humans : negative	
Solve	ent naphtha (petrole	um), light aromatic	
Test T		: Buehler Tes	
	sure routes	: Skin contact	
Speci	es	: Guinea pig	
Resul	t	: negative	
Metha	anol:		
Test T		: Maximisation	
	sure routes	: Skin contact	
Speci Resul		: Guinea pig : negative	
Resul	l .	. negative	
Chror	nic toxicity		
	cell mutagenicity cause genetic defects		
<u>Comp</u>	oonents:		
Ethyl	benzene:		
Genot	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) tive
			n vitro mammalian cell gene mutation test CD Test Guideline 476 tive
		Test Type: C Result: nega	Chromosome aberration test in vitro tive
Genot	toxicity in vivo	mammalian Species: Mo Application F	Route: Inhalation CD Test Guideline 486
Xylen	e:		
-	toxicity in vitro	: Test Type: E Result: nega	acterial reverse mutation assay (AMES) tive



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		Result: negativ Test Type: In v Result: negativ	vitro mammalian cell gene mutation test ve vitro sister chromatid exchange assay in mam-
Genotoxici	ty in vivo	Species: Mous	oute: Skin contact
deltameth	rin (ISO):		
Genotoxici		: Test Type: Bao Result: negativ	cterial reverse mutation assay (AMES) /e
		Test Type: DN Test system: E Result: negativ	Escherichia coli
			romosomal aberration Chinese hamster ovary cells /e
		Test system: C	<i>v</i> itro mammalian cell gene mutation test Chinese hamster lung cells : LOAEL: 20 mg/kg e
Genotoxici	ty in vivo	: Test Type: Mic Species: Mous Application Ro Result: negativ	oute: Oral
		Test Type: dor Species: Mous Application Ro Result: negativ	oute: Oral
		Test Type: sist Species: Mous Cell type: Bond Application Ro Result: negativ	e marrow oute: Oral
2,6-Di-tert	-butyl-p-cresol:		
Genotoxici		: Test Type: Ba	cterial reverse mutation assay (AMES)
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		Result: nega	tive
		Test Type: Ir Result: nega	n vitro mammalian cell gene mutation test tive
		Test Type: C Result: nega	Chromosome aberration test in vitro tive
Genotoxicity in vivo			Autagenicity (in vivo mammalian bone-marrow est, chromosomal analysis)
			Route: Ingestion
Solve	ent naphtha (petrole	um), light aromatic:	:
Geno	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: Ir Result: posit	n vitro mammalian cell gene mutation test ive
Geno	toxicity in vivo	gonia Species: Mo	
		Result: posit	Route: Intraperitoneal injection ive
	cell mutagenicity - ssment	: Positive resu tests in mam	ılt(s) from in vivo heritable germ cell mutagenic ımals
Metha	anol:		
Geno	toxicity in vitro		acterial reverse mutation assay (AMES) CD Test Guideline 471 tive
		Test Type: Ir Result: nega	n vitro mammalian cell gene mutation test tive
		Test Type: ir Result: nega	n vitro micronucleus test tive
Geno	toxicity in vivo	cytogenetic a Species: Mo	use Route: Intraperitoneal injection

Carcinogenicity

May cause cancer.



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Com	ponents:	
-	benzene:	
Speci		: Rat
	cation Route	: inhalation (vapour)
Resul	sure time	: 104 weeks : positive
Rema		The mechanism or mode of action may not be relevant in hu-
rtome		mans.
Xylen	ne:	
Speci	ies	: Rat
Applic	cation Route	: Ingestion
	sure time	: 103 weeks
Resul	lt	: negative
delta	methrin (ISO):	
Speci		: Mouse, male and female
	cation Route	: oral (feed)
	sure time	: 104 weeks
NÓAE LOAE		 8 mg/kg body weight 4 mg/kg body weight
Resul		: positive
	et Organs	: Lymph nodes
Speci	ies	: Rat, male and female
Applic	cation Route	: oral (feed)
	sure time	: 2 Years
Resul	lt	: negative
Speci		: Dog, male and female
	cation Route	: oral (feed)
	sure time	: 2 Years
NOAE		: 1 mg/kg body weight
Resul	IL	: negative
	i-tert-butyl-p-cresol:	
Speci	es cation Route	: Rat : Ingestion
	sure time	: 22 Months
Resul		: negative
Solve	ent naphtha (petrole	um), light aromatic:
Speci	ies	: Mouse
	cation Route	: Skin contact
Expos	sure time	: 2 Years
Resul	lt	: positive
Carci	nogenicity - Assess-	: Sufficient evidence of carcinogenicity in animal experiments



ersion .3	Revision Date: 28.09.2024	SDS Numb 2972478-00	
ment	-		
	es cation Route sure time	: Monkey : inhalatio : 7 Month : negative	on (vapour) Is
-	oductive toxicity ected of damaging ferti	itv. Suspected	l of damaging the unborn child.
-	oonents:		
	benzene:		
-	s on fertility	Species Applica Method	be: Two-generation reproduction toxicity study : Rat ion Route: inhalation (vapour) : OECD Test Guideline 416 negative
Effect ment	s on foetal develop-	Species Applica Method	be: Embryo-foetal development : Rat ion Route: Inhalation : OECD Test Guideline 414 negative
Xylen	e:		
Effect	s on fertility	Species Applica	be: One-generation reproduction toxicity study : Rat ion Route: inhalation (vapour) negative
Effect ment	s on foetal develop-	Species Applica	be: Embryo-foetal development : Rat ion Route: inhalation (vapour) negative
deltar	methrin (ISO):		
	s on fertility	Species Applica Early Er weight Sympto Remark	ion Route: oral (feed) nbryonic Development: NOAEL: 50 mg/kg body ms: No effects on fertility, Embryo-foetal toxicity s: Significant toxicity observed in testing
		Species Applica	be: Two-generation reproduction toxicity study : Rat ion Route: Oral nbryonic Development: LOAEL: 84 - 149 mg/kg body



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		Test Type: F Species: Ra Application I	t, male Route: Oral
			AEL: 1 mg/kg body weight Effects on fertility ns: Testes
Effec ment	ts on foetal develop-	Developmer Result: Skel	
		Species: Ra Developmer	Development t, female htal Toxicity: NOAEL: 10 mg/kg body weight No effects on foetal development
		Species: Ra Application I Developmer	Development bbit, female Route: oral (gavage) Ital Toxicity: NOAEL: 16 mg/kg body weight No effects on foetal development
Repression Repres	oductive toxicity - As- nent		nce of adverse effects on sexual function and or on development, based on animal experiments.
2,6-D)i-tert-butyl-p-cresol:		
	ts on fertility	Species: Ra	Route: Ingestion
Effec ment	ts on foetal develop-	Species: Ra	Route: Ingestion
Solve	ent naphtha (petroleui	n). light aromatic	<u>.</u>
	ts on fertility	: Test Type: F test Species: Ra	Reproduction/Developmental toxicity screening t Route: inhalation (vapour)
Effec ment	ts on foetal develop-	Species: Ra	mbryo-foetal development t Route: inhalation (vapour)



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			Result: negative	
Metha	anol:			
	s on fertility	:	Species: Monkey	generation reproduction toxicity study / e: inhalation (vapour)
Effects on foetal develop- ment		:	test Species: Monkey	oduction/Developmental toxicity screening / e: inhalation (vapour)
	- single exposure cause respiratory irritat	tion.		
	oonents:			
Xylen				
	ssment	:	May cause respi	ratory irritation.
				-
	methrin (ISO):			
Asses	ssment	:	May cause respi	ratory irritation.
Solve	ent naphtha (petroleu	m), li	ght aromatic:	
	ent naphtha (petroleu ssment	i m), li :	-	siness or dizziness.
Asses	ssment	ım), li :	-	siness or dizziness.
Asses Metha Targe	ssment	i m), li : : :	May cause drow	tral nervous system
Asses Metha Targe Asses	anol: et Organs esment	:	May cause drow	tral nervous system
Asses Metha Targe Asses STOT	anol: •t Organs	:	May cause drow optic nerve, Cen Causes damage	tral nervous system to organs.
Asses Metha Targe Asses STOT May c	ssment anol: of Organs ssment - repeated exposure	:	May cause drow optic nerve, Cen Causes damage	tral nervous system to organs.
Asses Metha Targe Asses STOT May o Comp	anol: anol: at Organs ssment - repeated exposure cause damage to organ conents:	:	May cause drow optic nerve, Cen Causes damage	tral nervous system to organs.
Asses Metha Targe Asses STOT May c <u>Comp</u> Ethyl	anol: at Organs ssment - repeated exposure cause damage to organ	:	May cause drow optic nerve, Cen Causes damage	tral nervous system to organs. ⁻ repeated exposure.
Asses Metha Targe Asses STOT May c Comp Ethyl Expos Targe	ssment anol: et Organs ssment - repeated exposure cause damage to organ <u>conents:</u> benzene:	:	May cause drow optic nerve, Cen Causes damage ough prolonged or inhalation (vapou Auditory system Shown to produc	tral nervous system to organs. repeated exposure. ır)
Asses Metha Targe Asses STOT May c Comp Ethyl Expos Targe Asses	anol: anol: at Organs ssment - repeated exposure cause damage to organ conents: benzene: sure routes at Organs ssment	:	May cause drow optic nerve, Cen Causes damage ough prolonged or inhalation (vapou Auditory system Shown to produc	tral nervous system to organs. [•] repeated exposure. ır) æ significant health effects in animals at co
Asses Metha Targe Asses STOT May c Comp Ethyl Expos Targe Asses Xylen Expos	anol: anol: at Organs ssment - repeated exposure cause damage to organ conents: benzene: sure routes at Organs ssment be: sure routes	:	May cause drow optic nerve, Cen Causes damage ough prolonged or inhalation (vapou Auditory system Shown to produc centrations of >0	tral nervous system to organs. repeated exposure. r) e significant health effects in animals at co .2 to 1 mg/l/6h/d.
Asses Metha Targe Asses STOT May c Comp Ethyl Expos Targe Asses Xylen Expos Targe	anol: anol: at Organs ssment - repeated exposure cause damage to organ conents: benzene: sure routes of Organs ssment be:	:	May cause drow optic nerve, Cen Causes damage ough prolonged or inhalation (vapou Auditory system Shown to produc centrations of >0 inhalation (vapou Auditory system	tral nervous system to organs. repeated exposure. Ir) re significant health effects in animals at co .2 to 1 mg/l/6h/d. Ir) re significant health effects in animals at co



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Expos Targe	methrin (ISO): sure routes et Organs ssment		s system, Immune system Je to organs through prolonged or repeated
Targe	sure routes et Organs ssment	inhalation (dusi Central nervou	
	i-tert-butyl-p-cresol: ssment		nealth effects observed in animals at concentra g/kg bw or less.
Repe	ated dose toxicity		
Com	oonents:		
Speci LOAE Applic		: Rat : 0.868 mg/l : inhalation (vap : 13 Weeks	our)
Speci NOAE LOAE Applic Metho	EL EL cation Route	: Rat : 75 mg/kg : 250 mg/kg : Ingestion : OECD Test Gu	ideline 408
	es EL cation Route sure time	: Rat : > 0.2 - 1 mg/l : inhalation (vapo : 13 Weeks : Based on data	our) from similar materials
		: Rat : 150 mg/kg : Ingestion : 90 Days	
Speci NOAE LOAE	EL	: Rat, male and t : 1 mg/kg : 2.5 mg/kg : Oral	female



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Expos	sure time	: 13 Weeks	
	t Organs	: Nervous sy	stem
Symp		: hyperexcita	
Cymp		. Typerexent	2
Speci		: Rat	
LOAE		: 3 mg/m3	
	ation Route		dust/mist/fume)
	sure time	: 2 wk / 5 d/w	
Symp	toms	: Local irritati	on, respiratory tract irritation
Speci	es	: Dog	
NOAE		: 0.1 mg/kg	
LOAE		: 1 mg/kg	
	ation Route	: Oral	
	sure time	: 13 Weeks	
	t Organs	: Nervous sy	
Symp	toms	tion	f the pupil, Vomiting, Tremors, Diarrhoea, Saliva
		lion	
Speci	es	: Rat	
NOAE		: 14 mg/kg	
LOAE		: 54 mg/kg	
	ation Route	: Oral	
	sure time	: 91 d	
large	t Organs	: Nervous sy	stem
Speci	es	: Mouse	
LOAE		: 6 mg/kg	
	ation Route	: Oral	
	sure time	: 12 Weeks	
	t Organs	: Immune sys	
Symp	toms	: immune sys	stem enects
2,6-Di	-tert-butyl-p-cresol		
Speci		: Rat	
NOAE		: 25 mg/kg	
	ation Route	: Ingestion	
Expos	sure time	: 22 Months	
Solve	nt naphtha (petrole	um), light aromatic	
Speci		: Rat	
LOAE		: 500 mg/kg	
	ation Route	: Ingestion	
	sure time	: 28 Days	
1- 54	-	, -	

May be fatal if swallowed and enters airways.



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Components:

Ethylbenzene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Xylene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Solvent naphtha (petroleum), light aromatic:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Experience with human exposure

Components:

deltamethrin (ISO):		
Inhalation	Symptoms: respiratory tract irritation, Dizziness, Sweating Headache, Nausea, Vomiting, anorexia, Fatigue, tingling,	
	Palpitation, Blurred vision, muscle twitching	
Skin contact	Symptoms: Skin irritation, Erythema, pruritis, Headache, I sea, Vomiting, Dizziness, tingling, Sweating, muscle twitc	
Ingestion	Blurred vision, Fatigue, anorexia, Allergic reactions Symptoms: muscle pain, Small pupils	

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
Ethylbenzene:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 4.2 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1.8 - 2.4 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 3.6 mg/l Exposure time: 96 h
		NOEC (Pseudokirchneriella subcapitata (green algae)): 3.4 mg/l Exposure time: 96 h
Toxicity to daphnia and other	:	NOEC (Ceriodaphnia dubia (water flea)): 0.96 mg/l



/ersion 5.3	Revision Date: 28.09.2024		S Number: 72478-00017	Date of last issue: 26.06.2024 Date of first issue: 02.07.2018			
aquati ic toxi	c invertebrates (Chron-		Exposure time:	7 d			
	ty to microorganisms	:	: EC50 (Nitrosomonas sp.): 96 mg/l Exposure time: 24 h				
Xylen	e:						
Toxici	ty to fish	:	LC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): 13.5 mg/l 96 h			
	Toxicity to daphnia and other aquatic invertebrates		Exposure time: Method: OECD	magna (Water flea)): > 1 - 10 mg/l 24 h Test Guideline 202 d on data from similar materials			
Toxici plants	ty to algae/aquatic	:	EC50 (Skeletor Exposure time:	ema costatum (marine diatom)): 10 mg/l 72 h			
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: Method: OECD	erio (zebra fish)): > 0.1 - < 1 mg/l 35 d Test Guideline 210 d on data from similar materials			
aquati	Foxicity to daphnia and other aquatic invertebrates (Chron- c toxicity)		EL10 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: Based on data from similar materials				
Toxici	Toxicity to microorganisms						
deltar	nethrin (ISO):						
Toxici	ty to fish	:	LC50 (Cyprinoc mg/l Exposure time:	lon variegatus (sheepshead minnow)): 0.000 96 h			
			LC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): 0.00039 mg/l 96 h			
	ty to daphnia and other c invertebrates	:	EC50 (Mysidop Exposure time:	sis bahia (opossum shrimp)): 0.0037 µg/l 48 h			
			EC50 (Daphnia Exposure time:	magna (Water flea)): 0.0035 mg/l 48 h			
			LC50 (Gammar Exposure time:	us fasciatus (freshwater shrimp)): 0.0003 µg 96 h			
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudok mg/l	tirchneriella subcapitata (green algae)): > 9.1			



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			Exposure time: 72 Method: OECD T Remarks: No toxi		
Toxici icity)	ty to fish (Chronic tox-	:	NOEC (Pimephal mg/l Exposure time: 36	es promelas (fathead minnow)): 0.000022	
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 26 NOEC (Daphnia i Exposure time: 2	nagna (Water flea)): 0.0041 μg/l	
	i -tert-butyl-p-cresol: ty to fish	:	Exposure time: 96	o (zebra fish)): > 0.57 mg/l 6 h 67/548/EEC, Annex V, C.1.	
	Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia magna (Water flea)): 0.48 mg/l Exposure time: 48 h Method: OECD Test Guideline 202		
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD T NOEC (Pseudoki mg/l	est Guideline 201 rchneriella subcapitata (green algae)): 0.24	
			Exposure time: 72 Method: OECD T		
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: 30	atipes (Japanese medaka)): 0.053 mg/l) d est Guideline 210	
aquat	ty to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia i Exposure time: 2 ⁻	magna (Water flea)): 0.316 mg/l 1 d	
	ic toxicity) Toxicity to microorganisms		EC50: > 10,000 n Exposure time: 3 Method: OECD T		
	nt naphtha (petroleum), li	-		
Toxici	ty to fish	:	Exposure time: 96	s promelas (fathead minnow)): 8.2 mg/l 5 h Vater Accommodated Fraction	
Toxici	ty to daphnia and other	:	EL50 (Daphnia m	agna (Water flea)): 4.5 mg/l	



rsion	Revision Date: 28.09.2024		0S Number: 72478-00017	Date of last issue: 26.06.2024 Date of first issue: 02.07.2018
aquatio	; invertebrates			I8 h Water Accommodated Fraction Fest Guideline 202
Toxicity plants	y to algae/aquatic	:	Exposure time: 9 Test substance:	rchneriella subcapitata (microalgae)): 3.1 mg 96 h Water Accommodated Fraction Fest Guideline 201
			mg/l Exposure time: 9 Test substance:	okirchneriella subcapitata (microalgae)): 0.5 96 h Water Accommodated Fraction Fest Guideline 201
	y to daphnia and other invertebrates (Chron- ity)		Exposure time: 2 Test substance:	a magna (Water flea)): 2.6 mg/l 21 d Water Accommodated Fraction Test Guideline 211
Metha	nol:			
Toxicity	y to fish	:	LC50 (Lepomis Exposure time: 9	macrochirus (Bluegill sunfish)): 15,400 mg/l 96 h
	y to daphnia and other invertebrates	:	EC50 (Daphnia Exposure time: 4 Method: DIN 384	
Toxicity to algae/aquatic plants		:	ErC50 (Raphidocelis subcapitata (freshwater green alga 22,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 201	
Toxicity	y to microorganisms	:	Exposure time: 3 Test substance:	sludge): > 1,000 mg/l } h Neutralised product Test Guideline 209
Persis	tence and degradabil	ity		
Compo	onents:			
Ethylb	enzene:			
Biodeg	radability	:	Result: Readily B Biodegradation: Exposure time: 2	70 - 80 %
Xylene				
-	radability	:	Result: Readily Biodegradation: Exposure time: 2	> 70 %



rsion	Revision Date: 28.09.2024	-	DS Number: 72478-00017	Date of last issue: 26.06.2024 Date of first issue: 02.07.2018
				Test Guideline 301F I on data from similar materials
delta	methrin (ISO):			
Stabi	lity in water	:	Hydrolysis: 0 %(30 d)
2,6-D	i-tert-butyl-p-cresol:			
Biode	egradability	:	Biodegradation: Exposure time: 2	
Solve	ent naphtha (petroleu	ım), li	ght aromatic:	
Biode	egradability	:	Result: Inherentl Biodegradation: Exposure time: 2	
Meth	anol:			
Biode	egradability	:	Result: Readily I Biodegradation: Exposure time: 2	95 %
Bioa	ccumulative potentia	I		
Com	ponents:			
Partit	benzene: ion coefficient: n- ol/water	:	log Pow: 3.6	
Xyler				
	ion coefficient: n- ol/water	:	log Pow: 3.16 Remarks: Calcu	lation
delta	methrin (ISO):			
	cumulation	:		is macrochirus (Bluegill sunfish) n factor (BCF): 1,800
		:	log Pow: 4.6	
	ion coefficient: n- ol/water			
octan 2,6-D	ol/water i-tert-butyl-p-cresol:			
octan 2,6-D	ol/water	:	Species: Cyprine Bioconcentratior	us carpio (Carp) n factor (BCF): 330 - 1,800
octan 2,6-D Bioac Partit	ol/water i-tert-butyl-p-cresol:	:		



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Bioaccumulation		Species: Leuciscus idus (Golden orfe) Bioconcentration factor (BCF): < 10		
Partition coefficient: n- octanol/water		log Pow: -0.77		
lity in soil				
ponents:				
methrin (ISO): bution among environ- al compartments	:	log Koc: 7.2		
r adverse effects ata available				
	28.09.2024 ccumulation ion coefficient: n- iol/water lity in soil ponents: methrin (ISO): bution among environ- al compartments r adverse effects	28.09.2024 29 ccumulation : ion coefficient: n- : iol/water lity in soil ponents: methrin (ISO): bution among environ- al compartments r adverse effects	28.09.2024 2972478-00017 ccumulation : Species: Leucisc Bioconcentration ion coefficient: n- iol/water lity in soil ponents: methrin (ISO): bution among environ- al compartments r adverse effects	

Disposal 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 han- dling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or ex- pose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

:	UN 1992
:	FLAMMABLE LIQUID, TOXIC, N.O.S. (Ethylbenzene, Xylene)
:	3
:	6.1
:	III
:	3 (6.1)
:	no
:	UN 1992
:	Flammable liquid, toxic, n.o.s. (Ethylbenzene, Xylene)
:	3
:	6.1
:	III
:	Flammable Liquids, Toxic
:	366

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Deltamethrin (with Xylene) Formulation

SDS Number:

2972478-00017

The components of this pro	duct are reported in th	e following inventories:
Standard) Instrument Prohibition/Licensing Require	apply for this chem	 ific conditions or threshold limits that mical) There is no applicable prohibitio authorisation and restricted use requirements, including for carcigens referred to in Schedule 10 the model WHS Act and Regulations.
Safety, health and environm ture Therapeutic Goods (Poisons	ental regulations/legis	slation specific for the substance or
	cations may vary by moo egulations.	I as it is described within this Safety Da de of transportation, package sizes, and
The transport classification(s)	provided herein are for	informational purposes only, and solely
Special precautions for use		
Class Subsidiary risk Packing group Labels Hazchem Code Environmentally hazardous	: 3 : 6.1 : III : 3 (6.1) : •3W : no	
ADG UN number Proper shipping name	: UN 1992 : FLAMMABLE LIQU (Ethylbenzene, Xy	
National Regulations		
Transport in bulk according Not applicable for product as		0L 73/78 and the IBC Code
EmS Code Marine pollutant	: F-E, S-D : yes	
Class Subsidiary risk Packing group Labels	: 3 : 6.1 : III : 3 (6.1)	
IMDG-Code UN number Proper shipping name	: UN 1992 : FLAMMABLE LIQU (Ethylbenzene Xvl	JID, TOXIC, N.O.S. ene, deltamethrin (ISO))
aircraft) Packing instruction (passen- ger aircraft)	: 355	



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Γ	DSL		:	not determined		
I	ECSC		:	not determined		
SECT	TION 1	6: ANY OTHER RELE	VAI	NT INFORMATION	l	
F	Furthe	r information				
		n Date		28.09.2024		
S	Source	s of key data used to the Safety Data	:	Internal technical	data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/	
0	Date fo	rmat	:	dd.mm.yyyy		
F	Full tex	t of other abbreviation	ons			
A	ACGIH ACGIH AU OE		:	ACGIH - Biologica	eshold Limit Values (TLV) al Exposure Indices (BEI) ace Exposure Standards for Airborne Con-	
A A	ACGIH AU OE	/ TWA / STEL L / TWA L / STEL	:			
L S S E S X T T C C C S C C C C C C C C S S S S S S	AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport b 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 wit x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated wit x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized Sys tem; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IAT, - International Air Transport Association; IBC - International Code for the Construction an Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory cor centration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chem cal Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Or ganisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Cor centration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Media Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships p. o. S NO(A) Observed (Adverse) Effer					

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 - Trans-



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portation 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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