



Vers 4.3	sion	Revision Date: 2024/09/28		S Number: 2474-00017	Date of last issue: 2024/06/26 Date of first issue: 2018/07/02
1. PI	RODUC	T AND COMPANY IDI	ENT	FICATION	
	Produc	t name	:	Deltamethrin (wit	h Xylene) Formulation
	Manufa Compa	acturer or supplier's c ny	letai :	ls MSD	
	Addres	S	:	126 E. Lincoln Av Rahway, New Je	venue rsey U.S.A. 07065
	Teleph	one	:	908-740-4000	
	Emerge	ency telephone number	r:	1-908-423-6000	
	E-mail	address	:	EHSDATASTEW	ARD@msd.com
		mended use of the cl	nem	ical and restriction	ons on use
		mended use tions on use	:	Veterinary produce Not applicable	ct

2. HAZARDS IDENTIFICATION

GHS Classification		
Flammable liquids	:	Category 3
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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-term (acute) aquatic d	: Category 1	
term (chronic) aquatic d	: Category 1	
label elements rd pictograms		
l word	: Danger	
rd statements	H302 Harmful H304 May be H315 Causes H317 May cau H319 Causes H335 May cau H340 May cau H361fd Suspe ing the unborn H373 May cau peated exposu	fatal if swallowed and enters airways. skin irritation. ise an allergic skin reaction. serious eye irritation. ise genetic defects. ise cancer. cted of damaging fertility. Suspected of damag- child. ise damage to organs through prolonged or re-
autionary statements	P202 Do not h and understoo P210 Keep aw No smoking. P233 Keep co P241 Use exp ment. P242 Use only P243 Take pre P260 Do not b P264 Wash sk P270 Do not e P271 Use only P272 Contami the workplace. P273 Avoid re P280 Wear prot	vay from heat/ sparks/ open flames/ hot surfaces ntainer tightly closed. losion-proof electrical/ ventilating/ lighting equip- y non-sparking tools. ecautionary measures against static discharge. reathe mist or vapours. tin thoroughly after handling. at, drink or smoke when using this product. y outdoors or in a well-ventilated area. nated work clothing should not be allowed out of the set to the environment. protective gloves/ protective clothing/ eye protec-
	d term (chronic) aquatic d label elements rd pictograms I word rd statements	d term (chronic) aquatic label elements rd pictograms il word rd statements rd statements utionary statements rutionary stat



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		CENTER/ do P303 + P361 ly all contami P304 + P340 and keep cor doctor if you P305 + P351 for several m easy to do. C P308 + P313 attention. P331 Do NO P333 + P313 vice/ attention P337 + P313 tention.	ctor. + P353 IF ON SKI nated clothing. Rins + P312 IF INHALE mfortable for breath feel unwell. + P338 IF IN EYES inutes. Remove con- continue rinsing. IF exposed or con- T induce vomiting. If skin irritation or r n. If eye irritation pers Take off contamina	Immediately call a POISON N (or hair): Take off immediate- se skin with water/ shower. D: Remove person to fresh air ing. Call a POISON CENTER/ S: Rinse cautiously with water ntact lenses, if present and cerned: Get medical advice/ rash occurs: Get medical ad- sists: Get medical advice/ at- ated clothing and wash it before				
		Storage:						
		P403 + P235 P405 Store lo		tilated place. Keep cool.				
		Disposal: P501 Dispos disposal plan	Disposal: P501 Dispose of contents/ container to an approved waste					
Cutar er, th	neous sensations may	no lesions and are of	ng or stinging on th	e face and mucosae. Howev- (max. 24 hours).				
. COMPO	DSITION/INFORMAT		ſS					
Sube	tance / Mixture	: Mixture						
	ponents	. WIXIUE						
	nical name		CAS-No.	Concentration (% w/w)				

Chemical name	CAS-No.	Concentration (% w/w)
Ethylbenzene	100-41-4	>= 30 -< 60
Xylene	1330-20-7	>= 30 -< 60
4-Nonylphenol, branched, ethoxylated	127087-87-0	>= 10 -< 25
deltamethrin (ISO)	52918-63-5	>= 3 -< 10
2,6-Di-tert-butyl-p-cresol	128-37-0	>= 2.5 -< 10
Solvent naphtha (petroleum), light aromatic	64742-95-6	>= 0.25 -< 2.5
Methanol	67-56-1	< 1

4. FIRST AID MEASURES

General advice

: In the case of accident or if you feel unwell, seek medical ad-



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				vice immediately When symptoms advice.	persist or in all cases of doubt seek medical				
lf	If inhaled		:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.					
Ir	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.					
Ir	In case of eye contact			for at least 15 mi	nove contact lens, if worn.				
lf	If swallowed		:	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. Never give anything by mouth to an unconscious person.					
a	Most important symptoms and effects, both acute and delayed		:	Harmful if swallov May be fatal if sw Causes skin irrita May cause an all Causes serious e May cause serious e May cause gener May cause gener May cause gener May cause cance Suspected of dar unborn child. May cause dama exposure. This product com Pyrethroid poisor	wed. vallowed and enters airways. ation. lergic skin reaction. eye irritation. ratory irritation. tic defects. er. maging fertility. Suspected of damaging the age to organs through prolonged or repeated tains a pyrethroid. hing should not be confused with carbamate				
Ρ	rotecti	on of first-aiders	:	or organophosphate poisoning. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment					
N	lotes to	o physician	:		al for exposure exists (see section 8). ically and supportively.				
5. FIR	EFIGH	ITING MEASURES							
S	uitable	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (Dry chemical					
	Insuita nedia	ble extinguishing	:	High volume wat	er jet				
S	pecific	hazards during fire-	:	Do not use a soli	d water stream as it may scatter and spread				
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fighti	ng		Vapours may forn	le over considerable distance. n explosive mixtures with air. pustion products may be a hazard to health.			
Haza ucts	rdous combustion prod-	:	Carbon oxides Nitrogen oxides (NOx) Bromine compounds				
Spec ods	ific extinguishing meth-	:	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.				
	ial protective equipment efighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.				
6. ACCID	ENTAL RELEASE MEAS	SUF	RES				
tive e	onal precautions, protec- equipment and emer- y procedures	:					
Envir	Environmental precautions		Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages			
	ods and materials for ainment and cleaning up	:	Suppress (knock spray jet. For large spills, pr ment to keep mat be pumped, store Clean up remainin bent. Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	s should be used. absorbent material. down) gases/vapours/mists with a water rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. In materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- tions are applicable. 5 of this SDS provide information regarding tional requirements.			



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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 vapours. 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 as- sessment Non-sparking tools should be used. Keep container tightly closed. Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respira- tory irritants or sensitisers. 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 labelled 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: Self-reactive substances and mixtures Organic peroxides Oxidizing agents Flammable gases Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Poisonous gases Explosives

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	



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		exposure)	concentration				
Ethylbenzene	100-41-4	NAB	20 ppm	ID OEL			
	Further inform	ation: Confirmed	animal carcinogen.				
		TWA	20 ppm	ACGIH			
Xylene	1330-20-7	NAB	100 ppm	ID OEL			
			434 mg/m3				
	Further inform	ation: Not classi	fied as carcinogenic t	o humans. Not			
			naterials as carcinog	enic to hu-			
	mans or anima	als					
		PSD	150 ppm	ID OEL			
			651 mg/m3				
			fied as carcinogenic t				
	enough data to classify these materials as carcinogenic to hu-						
	mans or animals						
		TWA	20 ppm	ACGIH			
deltamethrin (ISO)	52918-63-5	TWA	15 µg/m3 (OEB 3)	Internal			
	Further inform	ation: DSEN, Sk					
		Wipe limit	100 µg/100 cm ²	Internal			
2,6-Di-tert-butyl-p-cresol	128-37-0	TWA (Inhal-	2 mg/m3	ACGIH			
		able fraction					
		and vapor)					
Solvent naphtha (petroleum),	64742-95-6	TWA	200 mg/m3	ACGIH			
light aromatic			(total hydrocarbon				
			vapor)				
Methanol	67-56-1	NAB	200 ppm	ID OEL			
	Further inform		Γ				
		PSD	250 ppm	ID OEL			
	Further inform	urther information: Skin					
		TWA	200 ppm	ACGIH			
		STEL	250 ppm	ACGIH			

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
Methanol	67-56-1	Methanol	Urine	End of	15 mg/l	ACGIH



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			shift (As BEI soon as possible after exposure ceases)
Engir	neering measures	technologies less quick cor All engineerin design and op protect produc Containment are required t the compound tainment devi Minimize oper	g controls should be implemented by facility berated in accordance with GMP principles to cts, workers, and the environment. technologies suitable for controlling compounds o control at source and to prevent migration of d to uncontrolled areas (e.g., open-face con- ces). n handling.
		Use explosior ment.	n-proof electrical, ventilating and lighting equip-
Perso	onal protective equip	nent	
Fil	iratory protection Iter type protection	sure assessm ommended g	cal exhaust ventilation is not available or expo- tent demonstrates exposures outside the rec- uidelines, use respiratory protection. rticulates and organic vapour type
Ма	aterial	: Chemical-resi	stant gloves
Re	emarks		ble gloving. Take note that the product is flam- may impact the selection of hand protection.
Eye p	protection	: Wear safety g If the work en mists or aeros Wear a faces potential for d aerosols.	plasses with side shields or goggles. vironment or activity involves dusty conditions, sols, wear the appropriate goggles. hield or other full face protection if there is a irect contact to the face with dusts, mists, or
Skin a	and body protection	Additional boo task being pe posable suits)	or laboratory coat. dy garments should be used based upon the rformed (e.g., sleevelets, apron, gauntlets, dis-) to avoid exposed skin surfaces. ate degowning techniques to remove potentially clothing.
Hygie	ene measures	: If exposure to eye flushing s ing place. When using d Contaminated workplace. Wash contam The effective	chemical is likely during typical use, provide systems and safety showers close to the work- lo not eat, drink or smoke. If work clothing should not be allowed out of the inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment,



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			industrial hygiene use of administrat	vning and decontamination procedures, monitoring, medical surveillance and the ive controls.
		rop		
Appeara Colour	ance	•	liquid clear	
Colour		•	yellow	
Odour			No data available	2
	Threshold	:	No data available	
pН		:	No data available	9
Melting	point/freezing point	:	No data available	9
Initial bo range	oiling point and boiling	:	No data available	9
Flash p	oint	:	38 °C	
Evapora	ation rate	:	No data available	9
Flamma	ability (solid, gas)	:	Not applicable	
Flamma	ability (liquids)	:	Not applicable	
	explosion limit / Upper bility limit	:	No data available	9
	explosion limit / Lower bility limit	:	No data available	9
Vapour	pressure	:	No data available)
Relative	e vapour density	:	No data available	9
Relative	e density	:	No data available	9
Density		:	No data available	9
Solubilit Wate	ty(ies) er solubility	:	No data available	
Partitior octanol/	n coefficient: n- /water	:	Not applicable	
	nition temperature	:	No data available	2



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Dec	composition temperature	:	No data available	
	cosity Viscosity, kinematic	:	No data available)
Exp	plosive properties	:	Not explosive	
Oxi	dizing properties	:	The substance o	r mixture is not classified as oxidizing.
Мо	lecular weight	:	No data available	9
	ticle characteristics ticle size	:	Not applicable	
10. STA	BILITY AND REACTIVITY	,		
Che	activity emical stability ssibility of hazardous reac- is	:	Stable under nor Flammable liquid Vapours may for	
Inc Ha	nditions to avoid ompatible materials zardous decomposition ducts	:	Heat, flames and Oxidizing agents No hazardous de	
11. TOX	ICOLOGICAL INFORMAT		l	
	ormation on likely routes of posure	:	Inhalation Skin contact Ingestion Eye contact	
	u te toxicity mful if swallowed.			
Pro	oduct:			
Αςι	ute oral toxicity	:	Acute toxicity esti Method: Calculati	mate: 1,314 mg/kg on method
Acu	ute inhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati	h vapour
Acı	ute dermal toxicity	:	Acute toxicity esti Method: Calculati	mate: > 2,000 mg/kg on method



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<u>Com</u>	ponents:			
Ethy	Ibenzene:			
-	e oral toxicity	:	LD50 (Rat): 3,500) mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): 17.8 r Exposure time: 4 Test atmosphere:	h
Acute	e dermal toxicity	:	LD50 (Rabbit): > {	5,000 mg/kg
Xylei	ne:			
-	e oral toxicity	:	LD50 (Rat): 3,523 Method: Directive	3 mg/kg 67/548/EEC, Annex V, B.1.
Acute	e inhalation toxicity	:	LC50 (Rat): 27.57 Exposure time: 4 Test atmosphere:	h
Acute	e dermal toxicity	:	LD50 (Rabbit): > 4	4,200 mg/kg
4-No	nylphenol, branched, et	tho	xvlated:	
	e oral toxicity	:	LD50 (Mouse): 4,2	290 mg/kg
delta	methrin (ISO):			
	e oral toxicity	:	LD50 (Rat): 66.7 i	mg/kg
			LD50 (Rat): 9 - 13	39 mg/kg
			LD50 (Mouse): 19	9 - 34 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): 0.8 m Exposure time: 2 Test atmosphere:	ĥ
Acute	e dermal toxicity	:	LD50 (Rabbit): 2,0	000 mg/kg
			LD50 (Rat): > 800) mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Rat): 2.5 m Application Route	
			LD50 (Mouse): 10 Application Route	
	Di-tert-butyl-p-cresol: e oral toxicity	:	LD50 (Rat): > 6,00 Method: OECD To	



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	Acute	dermal toxicity	:	LD50 (Rat): > 2,0 Method: OECD T Assessment: The toxicity	
	Solve	nt naphtha (petroleun	n) li	abt aromatic:	
		oral toxicity	-	LD50 (Rat): > 5,0	00 mg/kg
	Acute	inhalation toxicity	:	LC50 (Rat): > 5.6 Exposure time: 4 Test atmosphere:	h
	Acute	dermal toxicity	:	LD50 (Rabbit): >	2,000 mg/kg
	Metha	nol:			
		oral toxicity	:	Acute toxicity esti Method: Expert ju	mate (Humans): 300 mg/kg dgement
	Acute	inhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Expert ju Remarks: Based	h vapour
	Acute	dermal toxicity	:	Acute toxicity esti Method: Expert ju Remarks: Based	
	Skin c	orrosion/irritation			
		s skin irritation.			
	<u>Comp</u>	onents:			
	Xylen	e:			
	Specie		:	Rabbit	
	Result		:	Skin irritation	
	deltan	nethrin (ISO):			
	Specie	. ,	:	Rabbit	
	Result		:	No skin irritation	
	2.6-Di	-tert-butyl-p-cresol:			
	Specie		:	Rabbit	
	Metho	d	:	OECD Test Guide	eline 404
	Result Remai		:	No skin irritation Based on data fro	om similar materials
			•		

Solvent naphtha (petroleum), light aromatic:



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Speci	es	: Rabbit	
Resul	bd	: OECD Test G : Skin irritation	uideline 404
Metha	anol:		
Speci Resul		: Rabbit : No skin irritatio	on
	us eye damage/eye es serious eye irritatio		
	ponents:		
Xylen	ie:		
Speci Resul		: Rabbit : Irritation to eye	es, reversing within 21 days
delta	methrin (ISO):		
Speci Resul		: Rabbit : Moderate eye	irritation
2,6-Di	i-tert-butyl-p-cresol:		
Speci Resul		: Rabbit : No eye irritatio	n
Metho	bd	: OECD Test G	uideline 405
Rema	urks	: Based on data	from similar materials
	ent naphtha (petrole		
Speci Resul		: Rabbit : No eye irritatio	n
Metho		: OECD Test G	
Metha	anol:		
Speci		: Rabbit	
Resul	l.	: No eye irritatio	in .
Resp	iratory or skin sensi	tisation	
-	sensitisation cause an allergic skin	reaction.	
-	iratory sensitisation assified based on ava		
<u>Comp</u>	oonents:		
Xylen	ie:		
Test 7	Гуре	: Local lymph no	ode assay (LLNA)



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Speci		:	Skin contact Mouse	
Resul	t	:	negative	
deltar	nethrin (ISO):			
Test T Expos Speci Resul	sure routes es	:	Maximisation T Dermal Guinea pig negative	est
Test 1 Expos Specie Resul	sure routes es	:	Human repeat i Dermal Humans positive	nsult patch test (HRIPT)
2,6-Di	-tert-butyl-p-cresol:			
Test T Expos Specie Resul	sure routes es	: :	Human repeat Skin contact Humans negative	nsult patch test (HRIPT)
Solve	nt naphtha (petroleur	n), lig	ht aromatic:	
Test 1 Expos Speci Resul	sure routes es	: :	Buehler Test Skin contact Guinea pig negative	
Metha	anol:			
Test T Expos Specie Resul	sure routes es	: :	Maximisation T Skin contact Guinea pig negative	est
	cell mutagenicity ause genetic defects.			
<u>Comp</u>	onents:			
Ethyll	benzene:			
Genot	oxicity in vitro		Result: negative	terial reverse mutation assay (AMES) e tro mammalian cell gene mutation test
				Test Guideline 476
				omosome aberration test in vitro



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Ger	notoxicity in vivo	ma Sp Ap Mo	ammalian liv pecies: Mous plication Ro	oute: Inhalation D Test Guideline 486
Xyle	ene:			
-	notoxicity in vitro		est Type: Ba esult: negativ	cterial reverse mutation assay (AMES) ve
			st Type: Ch sult: negativ	romosome aberration test in vitro ve
			st Type: In vesult: negativ	vitro mammalian cell gene mutation test ve
		m	est Type: In v alian cells esult: negativ	vitro sister chromatid exchange assay in mam- ve
Ger	notoxicity in vivo	Sp Ap	ecies: Mous	oute: Skin contact
delt	amethrin (ISO):			
	notoxicity in vitro		est Type: Ba esult: negativ	cterial reverse mutation assay (AMES) ve
		Te	est Type: DN est system: E esult: negativ	Escherichia coli
		Te		romosomal aberration Chinese hamster ovary cells ve
		T∈ Co	st system: C	vitro mammalian cell gene mutation test Chinese hamster lung cells : LOAEL: 20 mg/kg e
Ger	notoxicity in vivo	Sp Ap	est Type: Mic pecies: Mous pplication Ro esult: negative	oute: Oral
		Sp	est Type: do pecies: Mous pplication Ro	



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		Result: neg	ative
		Species: M Cell type: E	one marrow Route: Oral
2,6	-Di-tert-butyl-p-cresol:		
	notoxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
		Test Type: Result: neg	In vitro mammalian cell gene mutation test ative
		Test Type: Result: neg	Chromosome aberration test in vitro ative
Ge	notoxicity in vivo	cytogenetic Species: R	Route: Ingestion
Sol	lvent naphtha (petroleum) light aromati	c .
	notoxicity in vitro		Bacterial reverse mutation assay (AMES)
		Test Type: Result: pos	In vitro mammalian cell gene mutation test itive
Ge	notoxicity in vivo	gonia Species: M	Route: Intraperitoneal injection
	rm cell mutagenicity - sessment	: Positive resteres tests in ma	sult(s) from in vivo heritable germ cell mutagenicity mmals
Mo	thanol:		
-	notoxicity in vitro		Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 ative
		Test Type: Result: neg	In vitro mammalian cell gene mutation test ative
		Test Type: Result: neg	in vitro micronucleus test ative



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Geno	toxicity in vivo	cytogenetic ass Species: Mouse	te: Intraperitoneal injection
	nogenicity cause cancer.		
Com	oonents:		
Ethyl	benzene:		
	cation Route sure time It	: Rat : inhalation (vapo : 104 weeks : positive : The mechanism mans.	ur) or mode of action may not be relevant in hu
Xylen			
	cation Route sure time	: Rat : Ingestion : 103 weeks : negative	
delta	methrin (ISO):		
Speci		: Mouse, male an	d female
	cation Route	: oral (feed)	
	sure time	: 104 weeks	
NOAE LOAE		: 8 mg/kg body w : 4 mg/kg body w	
Resul		: positive	oight
Targe	et Organs	: Lymph nodes	
Speci	es	: Rat, male and fe	emale
	cation Route	: oral (feed)	
Expos Resul	sure time	: 2 Years : negative	
Resul	it.	. negative	
Speci		: Dog, male and f	emale
	cation Route	: oral (feed)	
NOAE	sure time =1	: 2 Years : 1 mg/kg body w	eight
Resul		: negative	eight
2 6-D	i-tert-butyl-p-cresol		
Speci		: Rat	
	cation Route	: Ingestion	
	sure time	: 22 Months	



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Result	t	: n	egative	
Solve	nt naphtha (petroleu	m). liah	t aromatic:	
Specie Applic	es ation Route sure time	: N : S : 2	louse Skin contact Years ositive	
	nogenicity - Assess-			nce of carcinogenicity in animal experimer
Metha	anol:			
	ation Route sure time	: ir : 7	Nonkey hhalation (vapo Months egative	pur)
-	oductive toxicity ected of damaging fert	lity. Sus	spected of dan	naging the unborn child.
Comp	onents:			
Ethylt	penzene:			
-	s on fertility	S A N	Species: Rat	-generation reproduction toxicity study ite: inhalation (vapour) Test Guideline 416 e
Effects ment	s on foetal develop-	S	Species: Rat	oryo-foetal development
			Result: negativ	Test Guideline 414
Xvlen	e:			Test Guideline 414
Xylen Effects	e: s on fertility	F : T S A	esult: negativ est Type: One pecies: Rat	Test Guideline 414 e -generation reproduction toxicity study ite: inhalation (vapour)
Effects		: T S A F : T S A	esult: negativ est Type: One pecies: Rat pplication Rou esult: negativ est Type: Eml pecies: Rat	Test Guideline 414 e -generation reproduction toxicity study ute: inhalation (vapour) e oryo-foetal development ute: inhalation (vapour)
Effects	s on fertility	: T S A F : T S A	esult: negativ est Type: One pecies: Rat pplication Rou esult: negativ est Type: Eml pecies: Rat pplication Rou	Test Guideline 414 e -generation reproduction toxicity study ute: inhalation (vapour) e oryo-foetal development ute: inhalation (vapour)



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		weight Symptoms: No Remarks: Sign	ic Development: NOAEL: 50 mg/kg body effects on fertility, Embryo-foetal toxicity ificant toxicity observed in testing p-generation reproduction toxicity study
		Application Ro Early Embryon weight	ute: Oral ic Development: LOAEL: 84 - 149 mg/kg body effects on fertility, Embryo-foetal toxicity
		Test Type: Fer Species: Rat, r Application Ro Fertility: LOAE Symptoms: Eff Target Organs	nale ute: Oral L: 1 mg/kg body weight ects on fertility
Effec ment	ts on foetal develop-	Developmental Result: Skeleta	
		Developmental	
Repr sessi	oductive toxicity - As- ment		e of adverse effects on sexual function and on development, based on animal experiments.
2,6-D)i-tert-butyl-p-cresol:		
	ets on fertility	: Test Type: Two Species: Rat Application Ro Result: negativ	
Effec ment	ts on foetal develop-	: Test Type: Em Species: Rat Application Ro Result: negativ	





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Solve	nt naphtha (petroleu	m), lio	tht aromatic:	
	s on fertility	:	Test Type: Rep test Species: Rat	roduction/Developmental toxicity screenin te: inhalation (vapour)
Effects ment	s on foetal develop-	:	Species: Rat	eryo-foetal development te: inhalation (vapour)
Metha	inol:			
Effects	s on fertility	:	Species: Monke	te: inhalation (vapour)
Effects ment	s on foetal develop-	:	test Species: Monke	te: inhalation (vapour)
	- single exposure			
-	ause respiratory irritat	ion.		
Comp	onents:			
Xylen Asses		:	May cause resp	iratory irritation.
deltan	nethrin (ISO):			
Asses	sment	:	May cause resp	iratory irritation.
Solve	nt naphtha (petroleu	m), lio	ht aromatic:	
Asses		:	•	vsiness or dizziness.
Metha	inol:			
	t Organs	:	optic nerve, Cer Causes damage	ntral nervous system e to organs.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.



ersion .3	Revision Date: 2024/09/28	SDS Number: 2972474-00017	Date of last issue: 2024/06/26 Date of first issue: 2018/07/02		
<u>Com</u>	ponents:				
Ethyl	benzene:				
Targe	sure routes et Organs ssment				
Xyler	ie:				
Targe	sure routes et Organs ssment	 inhalation (vapped) Auditory systemic Shown to proceed to proced to proceed to proceed to proceed to proceed to proceed to pro			
delta	methrin (ISO):				
Targe	sure routes et Organs ssment		us system, Immune system ge to organs through prolonged or repeated		
Targe	sure routes et Organs ssment	 inhalation (dual Central nervoit Causes damage exposure. 			
•	i-tert-butyl-p-cresol:	. No oignificant	health offects chear and in animals at concentr		
A556:	ssment		health effects observed in animals at concentra g/kg bw or less.		
Repe	ated dose toxicity				
-	oonents:				
	benzene:				
Speci	es	: Rat			
LOAE		: 0.868 mg/l			
	cation Route sure time	: inhalation (vap : 13 Weeks	our)		
Speci		: Rat			
NOAE		: 75 mg/kg			
LOAE Applic Metho	cation Route	: 250 mg/kg : Ingestion : OECD Test G	uideline 408		
Xyler	ie:				
Speci		: Rat			
LÒAE	EL	: > 0.2 - 1 mg/l			
Applic	cation Route	: inhalation (vap	our)		



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Expo Rem	osure time arks	: 13 Weeks : Based on data	from similar materials				
Species LOAEL Application Route Exposure time		: Rat : 150 mg/kg : Ingestion : 90 Days	: 150 mg/kg : Ingestion				
Spec NOA LOA Appli Expo Targ	EL	: 1 mg/kg : 2.5 mg/kg : Oral : 13 Weeks : Nervous syster	: 2.5 mg/kg : Oral				
Expo		: Rat : 3 mg/m3 : inhalation (dus : 2 wk / 5 d/wk / : Local irritation,					
Expo Targ	EL	: Dog : 0.1 mg/kg : 1 mg/kg : Oral : 13 Weeks : Nervous syster : Dilatation of the tion	n e pupil, Vomiting, Tremors, Diarrhoea, Saliva-				
Expo	EL	: Rat : 14 mg/kg : 54 mg/kg : Oral : 91 d : Nervous syster	n				
Expo Targ		: Mouse : 6 mg/kg : Oral : 12 Weeks : Immune systen : immune systen					
Spec NOA Appli		: Rat : 25 mg/kg : Ingestion : 22 Months					



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Solvent naphtha (petroleum), light aromatic:

Species	:	Rat
LÕAEL	:	500 mg/kg
Application Route	:	Ingestion
Exposure time	:	28 Days

Aspiration toxicity

May be fatal if swallowed and enters airways.

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, Nau-
	sea, Vomiting, Dizziness, tingling, Sweating, muscle twitching,
la section	Blurred vision, Fatigue, anorexia, Allergic reactions
Ingestion	: Symptoms: muscle pain, Small pupils

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 : EC50 (Daphnia magna (Water flea)): 1.8 - 2.4 mg/l



rsion	Revision Date: 2024/09/28		9S Number: 72474-00017	Date of last issue: 2024/06/26 Date of first issue: 2018/07/02	
aquat	tic invertebrates		Exposure time: 48	3 h	
Toxic plants	ity to algae/aquatic S	:	EC50 (Pseudokin mg/l Exposure time: 96	chneriella subcapitata (green algae)): 3.6 S h	
			NOEC (Pseudoki mg/l Exposure time: 96	rchneriella subcapitata (green algae)): 3.4 Sh	
	ity to daphnia and other tic invertebrates (Chron- icity)	:	NOEC (Ceriodapl Exposure time: 7	nnia dubia (water flea)): 0.96 mg/l d	
	ity to microorganisms	:	EC50 (Nitrosomo Exposure time: 24		
Xyler	ne:				
Toxic	ity to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 13.5 mg/l S h	
	ity to daphnia and other tic invertebrates	:	Exposure time: 24 Method: OECD T		
Toxic plants	ity to algae/aquatic	:	EC50 (Skeletonema costatum (marine diatom)): 10 m Exposure time: 72 h		
Toxic icity)	ity to fish (Chronic tox-	:	 NOEC (Danio rerio (zebra fish)): > 0.1 - < 1 mg/l Exposure time: 35 d Method: OECD Test Guideline 210 Remarks: Based on data from similar materials 		
	ity to daphnia and other tic invertebrates (Chron- icity)	:	 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 		
Toxic	ity to microorganisms	:	 NOEC: > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials 		
	nylphenol, branched, e ity to fish	tho: :	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): > 0.1 - 1 m 5 h on data from similar materials	
Toxicity to daphnia and other aquatic invertebrates			EC50 (Daphnia m Exposure time: 44 Method: ISO 634		



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			Remarks: Base	ed on data from similar materials
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: Method: OECD	ocelis subcapitata (freshwater green alga)): > 1 72 h 9 Test Guideline 201 ed on data from similar materials
			mg/l Exposure time: Method: OECD	locelis subcapitata (freshwater green alga)): > 1 72 h 9 Test Guideline 201 ed on data from similar materials
M-Fac icity)	ctor (Acute aquatic tox-	:	1	
	ty to fish (Chronic tox-	:	Exposure time:	s latipes (Japanese medaka)): > 0.1 - 1 mg/l 100 d ed on data from similar materials
	ty to daphnia and other ic invertebrates (Chron- city)	:	mg/I Exposure time:	psis bahia (opossum shrimp)): > 0.001 - 0.01 28 d ed on data from similar materials
M-Fac toxicit	ctor (Chronic aquatic	:	10	
	ty to microorganisms	:	Exposure time: Method: OECD	d sludge): > 1 mg/l : 3 h 9 Test Guideline 209 ed on data from similar materials
deltar	nethrin (ISO):			
Toxici	ty to fish	:	LC50 (Cyprino mg/l Exposure time:	don variegatus (sheepshead minnow)): 0.00048 96 h
			LC50 (Oncorhy Exposure time:	/nchus mykiss (rainbow trout)): 0.00039 mg/l 96 h
	ty to daphnia and other ic invertebrates	:	EC50 (Mysidop Exposure time:	osis bahia (opossum shrimp)): 0.0037 μg/l . 48 h
			EC50 (Daphnia Exposure time:	a magna (Water flea)): 0.0035 mg/l 5 48 h
			LC50 (Gamma Exposure time:	rus fasciatus (freshwater shrimp)): 0.0003 μg/l 96 h
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudo mg/l Exposure time:	kirchneriella subcapitata (green algae)): > 9.1 : 72 h



Versio 4.3	n Revision Date: 2024/09/28		S Number: 2474-00017	Date of last issue: 2024/06/26 Date of first issue: 2018/07/02
			Method: OECD To Remarks: No toxio	est Guideline 201 city at the limit of solubility
	-Factor (Acute aquatic tox- ty)	:	1,000,000	
То	bxicity to fish (Chronic tox- ty)	:	NOEC (Pimephale mg/l Exposure time: 36	es promelas (fathead minnow)): 0.000022 S d
			NOEC (Pimephale mg/l Exposure time: 26	es promelas (fathead minnow)): 0.000017 60 d
ac	pxicity to daphnia and other quatic invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.0041 μg/l I d
М	toxicity) -Factor (Chronic aquatic xicity)	:	1,000,000	
2,	6-Di-tert-butyl-p-cresol:			
Т	oxicity to fish	:	Exposure time: 96	o (zebra fish)): > 0.57 mg/l δ h 67/548/EEC, Annex V, C.1.
	oxicity to daphnia and other quatic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	oxicity to algae/aquatic ants	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	-Factor (Acute aquatic tox-	:	1	
Тс	ty) oxicity to fish (Chronic tox- ty)	:	NOEC (Oryzias la Exposure time: 30 Method: OECD Te	
ac	oxicity to daphnia and other quatic invertebrates (Chron- toxicity)	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.316 mg/l I d
Μ	-Factor (Chronic aquatic xicity)	:	1	
	oxicity to microorganisms	:	EC50: > 10,000 m Exposure time: 3 Method: OECD Te	ĥ



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Solve	ent naphtha (petroleum), li	ght aromatic:	
Toxici	ity to fish	:	Exposure time:	les promelas (fathead minnow)): 8.2 mg/l 96 h : Water Accommodated Fraction
	ity to daphnia and other ic invertebrates	:	Exposure time: Test substance	magna (Water flea)): 4.5 mg/l 48 h : Water Accommodated Fraction Test Guideline 202
Toxici plants	ity to algae/aquatic	:	Exposure time: Test substance	irchneriella subcapitata (microalgae)): 3.1 m 96 h : Water Accommodated Fraction Test Guideline 201
			mg/l Exposure time: Test substance	okirchneriella subcapitata (microalgae)): 0.5 96 h : Water Accommodated Fraction Test Guideline 201
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time: Test substance	ia magna (Water flea)): 2.6 mg/l 21 d : Water Accommodated Fraction Test Guideline 211
Metha	anol:			
Toxici	ity to fish	:	LC50 (Lepomis Exposure time:	macrochirus (Bluegill sunfish)): 15,400 mg/l 96 h
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time: Method: DIN 38	
Toxici plants	ity to algae/aquatic	:	22,000 mg/l Exposure time:	ocelis subcapitata (freshwater green alga)): 96 h Test Guideline 201
Toxici	ity to microorganisms	:	Exposure time: Test substance	d sludge): > 1,000 mg/l 3 h : Neutralised product Test Guideline 209
Persi	stence and degradabil	ity		
Comp	oonents:			
Ethyl	benzene:			
Biode	gradability	:	Result: Readily	

Biodegradation: 70 - 80 %



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			Exposure time: 2	28 d	
Xyler	ne:				
Biodegradability		:	 Result: Readily biodegradable. Biodegradation: > 70 % Exposure time: 28 d Method: OECD Test Guideline 301F Remarks: Based on data from similar materials 		
4-No	nylphenol, branched	, etho	xylated:		
Biode	egradability	:		ily biodegradable. 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	:	Result: Not readily biodegradable. Biodegradation: 4.5 % Exposure time: 28 d Method: OECD Test Guideline 301C		
Solve	ent naphtha (petroleu	um), li	ght aromatic:		
Biode	egradability	:	Result: Inherentl Biodegradation: Exposure time: 2		
Meth	anol:				
Biode	egradability	:	Result: Readily B Biodegradation: Exposure time: 2	95 %	
Bioa	ccumulative potentia	ıl			
Com	ponents:				
Ethyl	benzene:				
	ion coefficient: n- ol/water	:	log Pow: 3.6		
Xyler					
	ion coefficient: n- ol/water	:	log Pow: 3.16 Remarks: Calcul	lation	
4-No	nylphenol, branched	, etho	xylated:		
Partit	ion coefficient: n-	:	log Pow: < 4		
octan	ol/water		Remarks: Calcul	lation	



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	deltam	ethrin (ISO):					
	deltamethrin (ISO): Bioaccumulation		:	Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 1,800			
	Partition coefficient: n- octanol/water		:	log Pow: 4.6			
	2,6-Di-	tert-butyl-p-cresol:					
	Bioaccumulation		:	Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 330 - 1,800			
	Partitio octano	n coefficient: n- I/water	:	log Pow: 5.1			
	Metha	nol:					
	Bioacc	umulation	:		us idus (Golden orfe) factor (BCF): < 10		
	Partitio octano	n coefficient: n- I/water	:	log Pow: -0.77			
	Mobilit	ty in soil					
	Compo	onents:					
	deltam	ethrin (ISO):					
	Distribu		:	log Koc: 7.2			
		adverse effects a available					
13. C	DISPOS		١S				
	D:						
	-	sal methods from residues		Do not dispose of	waste into sewer.		
	vasie	II OIII TESIQUES	•		ordance with local regulations.		
	Contan	ninated packaging	:	Empty containers should be taken to an approved waste h dling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or e pose such containers to heat, flame, sparks, or other sourc of ignition. They may explode and cause injury and/or dear If not otherwise specified: Dispose of as unused product.			
14. T	RANS	PORT INFORMATION	I				
	Interna	ational Regulations					

UNRTDG UN number

: UN 1992



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Proper shipping name Class Subsidiary risk Packing group Labels			FLAMMABLE LIQUID, TOXIC, N.O.S. (Ethylbenzene, Xylene) 3 6.1 III 3 (6.1)			
IATA-I UN/ID		:	no UN 1992 Flammable liquid			
Packin Labels Packin	g instruction (cargo	:	(Ethylbenzene,) 3 6.1 III Flammable Liquid 366			
aircraft Packin ger aire	g instruction (passen-	:	355			
Class Subsid Packin	mber shipping name liary risk g group		(Ethylbenzene, X 3 6.1 III	QUID, TOXIC, N.O.S. ylene, deltamethrin (ISO))		
Labels EmS C Marine		:	3 (6.1) 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.

15. REGULATORY INFORMATION

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered

: Not applicable





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	Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Sub stances							
	Hazardous substances approved			for use :			Methanol	
	Prohibited substances					:	Not applicable	
	Restricted substances					:	Not applicable	
	Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials							
	Type of hazardous materials subject to distribution and : Not applicable control, Annex I							
	Type of hazardous materials subject to distribution and : Not applicable control, Annex II							
	The components of this product are reported in the following inventories:							
	AICS		:	not determined			5	
	DSL		:	not determined				
	IECSC	<u>,</u>	:	not determined				
16.	16. OTHER INFORMATION							
	Revisi	on Date	:	2024/09/28				
	Furthe	er information						
		es of key data used to e the Safety Data	:		ar	ch re	data from raw material SDSs, OECD sults and European Chemicals Agen- u/	
Date format : yyyy/mm/dd								
	Full text of other abbreviations							
	ACGIH : USA. ACGIH Threshold ACGIH BEI : ACGIH - Biological Expo							
	ID OEI		:	Indonesia. Occupational Exposure Limits				
		H / TWA	:	8-hour, time-weig				
	ACGIH / STEL : Short-term exposure limit ID OEL / NAB : Long term exposure limit							
		L/PSD	:	Short term exposure limit				

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with



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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.

ID / EN