

Vers 3.1		Revision Date: 28.09.2024		S Number: 30556-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021
Sec	tion 1: le	dentification			
	Produc	t identifier	:	Deltamethrin (3%	b) Formulation
	Recom	mended use of the ch	nem	ical and restriction	ons on use
		mended use ions on use	:	Veterinary produce Not applicable	ct
	Manufa	cturer or supplier's d	otai	le	
	Compa		:	MSD	
	Address	3	:	50 Tuas West Dr Singapore - Sing	
	Telepho	one	:	+1-908-740-4000	)
	Emerge	ency telephone number	:	65 6697 2111 (24	4/7/365)
	E-mail a	address	:	EHSDATASTEW	ARD@msd.com

### Section 2: Hazard identification

### Classification of the substance or mixture

Flammable liquids	:	Category 3
Acute toxicity (Oral)	:	Category 4
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irri- tation	:	Category 1
Skin sensitisation	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 2
Aspiration hazard	:	Category 1
Short-term (acute) aquatic hazard	:	Category 1





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	ng-term (chronic) aquatic zard	: Category 1	
	IS Label elements, includ zard pictograms	ling precautionary s	tatements
Sig	gnal word	: Danger	
Ha	zard statements	H302 Harmful if H304 May be fa H315 Causes s H317 May caus H318 Causes s H335 May caus H361fd Suspect ing the unborn of H373 May caus peated exposur	tal if swallowed and enters airways. kin irritation. e an allergic skin reaction. erious eye damage. e respiratory irritation. ted of damaging fertility. Suspected of damag- child. e damage to organs through prolonged or re-
Pre	ecautionary statements	Prevention:	
		P202 Do not ha and understood P210 Keep awa and other ignitic P233 Keep com P241 Use explo ment. P242 Use non-s P243 Take actio P260 Do not bra P264 Wash skir P270 Do not ea P271 Use only o P272 Contamin the workplace. P273 Avoid rele P280 Wear prot	y from heat, hot surfaces, sparks, open flames on sources. No smoking. tainer tightly closed. sion-proof electrical/ ventilating/ lighting equip-
		Response:	
		CENTER/ docto P303 + P361 + ly all contamina P304 + P340 +	SWALLOWED: Immediately call a POISON or. P353 IF ON SKIN (or hair): Take off immediate- ted clothing. Rinse skin with water. P312 IF INHALED: Remove person to fresh air ortable for breathing. Call a POISON CENTER/



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doctor if you feel unwell.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
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.
P391 Collect spillage.

### 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)
Xylene	1330-20-7	>= 70 -< 90
Calcium dodecylbenzenesulphonate	26264-06-2	>= 3 -< 10
Nonylphenol, ethoxylated	9016-45-9	>= 3 -< 10
deltamethrin (ISO)	52918-63-5	>= 3 -< 10
2,6-Di-tert-butyl-p-cresol	128-37-0	>= 1 -< 2.5

### Section 4: First-aid measures

#### Description of necessary first-aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention.



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	e of eye contact llowed	Thoroughly cl In case of cor for at least 15 If easy to do, Get medical a If swallowed, If vomiting oc Call a physicia Rinse mouth	g before reuse. ean shoes before reuse. htact, immediately flush eyes with plenty of wate minutes. remove contact lens, if worn. httention immediately. DO NOT induce vomiting. curs have person lean forward. an or poison control centre immediately. thoroughly with water. hything by mouth to an unconscious person.
Most	important symptoms a	nd effects, both a	acute and delaved
Risks	ction of first-aiders	<ul> <li>Harmful if swa May be fatal i Causes skin i May cause ar Causes serior May cause re Suspected of unborn child. May cause da exposure. This product o Pyrethroid po or organopho</li> <li>First Aid respo and use the re</li> </ul>	allowed. f swallowed and enters airways.
Indica	ation of any immediate	medical attention	n and special treatment needed
Treatr	ment	: Treat sympton	matically and supportively.
Exting	Fire-fighting measure Juishing media ble extinguishing media	s : Water spray Alcohol-resist Carbon dioxic Dry chemical	
Unsui media	table extinguishing	: High volume	water jet
Speci	ial hazards arising fror	n the substance o	or mixture
-	fic hazards during fire-	: Do not use a fire. Flash back po Vapours may	solid water stream as it may scatter and spread ossible over considerable distance. form explosive mixtures with air. combustion products may be a hazard to health





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Haza ucts	ardous combustion prod-	:	Carbon oxides Nitrogen oxides Bromine compo Metal oxides Sulphur compou	unds
Spe	cial protective actions f	or fi	re-fighters	
	cial protective equipment refighters	:		re, wear self-contained breathing apparatus. otective equipment.
Spe ods	cific extinguishing meth-	:	cumstances and Use water spray	ng measures that are appropriate to local cir- I the surrounding environment. I to cool unopened containers. aged containers from fire area if it is safe to do
Section	6: Accidental release me	eas	ures	
	l <b>precautions, protective</b> onal precautions	e eq :	Remove all sour Use personal pr Follow safe han	
	nental precautions ronmental precautions	:	Prevent further Prevent spreadi barriers). Retain and disp	the environment. eakage or spillage if safe to do so. ng over a wide area (e.g. by containment or oil ose of contaminated wash water. s should be advised if significant spillages ined.
	and materials for contanods for cleaning up	inn :	Non-sparking to Soak up with ine Suppress (knoc spray jet. For large spills, ment to keep may be pumped, stor Clean up remain bent. Local or national posal of this ma employed in the mine which regu	<b>g up</b> ols should be used. ert absorbent material. k down) gases/vapours/mists with a water provide dyking or other appropriate contain- aterial from spreading. If dyked material can re recovered material in appropriate container. hing materials from spill with suitable absor- l regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- ulations are applicable.



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### Section 7: Handling and storage

Precautions for safe handling	
Technical measures :	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation :	If sufficient ventilation is unavailable, use with local exhaust ventilation.
	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.
Hygiene measures :	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working
	place.
	When using do not eat, drink or smoke.
	Contaminated work clothing should not be allowed out of the
	workplace. Wash contaminated clothing before re-use.
	The effective operation of a facility should include review of
	engineering controls, proper personal protective equipment,
	appropriate degowning and decontamination procedures,
	industrial hygiene monitoring, medical surveillance and the
	use of administrative controls.
Conditions for safe storage, in	cluding any incompatibilities
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



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Oxidizing agents Flammable gases Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Poisonous gases Explosives

### Section 8: Exposure controls/personal protection

### **Control parameters**

### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis		
Xylene	1330-20-7	PEL (long term)	100 ppm 434 mg/m3	SG OEL		
		PEL (short term)	150 ppm 651 mg/m3	SG OEL		
		TWA	20 ppm	ACGIH		
deltamethrin (ISO)	52918-63-5	TWA	15 µg/m3 (OEB 3)	Internal		
	Further inform	Further information: DSEN, Skin				
		Wipe limit	100 µg/100 cm <sup>2</sup>	Internal		
2,6-Di-tert-butyl-p-cresol	128-37-0	PEL (long term)	10 mg/m3	SG OEL		
		TWA (Inhal- able fraction and vapor)	2 mg/m3	ACGIH		

### **Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Xylene	1330-20-7	methylhip- puric acid	Urine		1.5 g/g cre- atinine	SG BTLV
		Methylhip- puric acids	Urine	End of shift (As soon as possible after exposure ceases)	0.3 g/g cre- atinine	ACGIH BEI

Appropriate engineering<br/>control measures:Use appropriate engineering controls and manufacturing<br/>technologies to control airborne concentrations (e.g., drip-<br/>less quick connections).<br/>All engineering controls should be implemented by facility<br/>design and operated in accordance with GMP principles to



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		Containment te are required to	
		Use explosion- ment.	proof electrical, ventilating and lighting equip
Indivi	dual protection mea	asures, such as perso	onal protective equipment (PPE)
Eye/fa	ace protection	If the work envi mists or aerosc Wear a faceshi	asses with side shields or goggles. Fronment or activity involves dusty conditions ols, wear the appropriate goggles. eld or other full face protection if there is a ect contact to the face with dusts, mists, or
Skin p	protection	Additional body task being perf posable suits) t	or laboratory coat. y garments should be used based upon the ormed (e.g., sleevelets, apron, gauntlets, dis to avoid exposed skin surfaces. e degowning techniques to remove potential clothing.
Respi	ratory protection	: If adequate loca sure assessme	al exhaust ventilation is not available or expo int demonstrates exposures outside the rec- delines, use respiratory protection.
	ter type protection		iculates and organic vapour type
Ma	aterial	: Chemical-resis	tant gloves
Re	emarks		e gloving. Take note that the product is flam hay impact the selection of hand protection.

### Section 9: Physical and chemical properties

Appearance	:	liquid
Colour	:	yellow
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	4 - 5
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	45 - 51 °C



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	Evapor	ration rate	:	No data available	)
	Flamm	ability (solid, gas)	:	Not applicable	
	Flamm	ability (liquids)	:	No data available	)
		explosion limit / Upper ability limit	:	No data available	)
		explosion limit / Lower ability limit	:	No data available	)
	Vapour	r pressure	:	No data available	)
	Relativ	e vapour density	:	No data available	)
	Relativ	e density	:	No data available	9
	Density	ý	:	No data available	9
	Solubil Wat	ity(ies) ter solubility	:	soluble	
		n coefficient: n-	:	Not applicable	
	octano Auto-ig	inition temperature	:	No data available	)
	Decom	position temperature	:	No data available	)
	Viscosi Visc	ity cosity, kinematic	:	No data available	9
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	ılar weight	:	No data available	)
	Particle Particle	e characteristics e size	:	Not applicable	
Sec	tion 10:	Stability and reactivi	ty		
		vity cal stability ility of hazardous reac-	:	Stable under nor Flammable liquid Vapours may for	
	Conditi	ons to avoid	:	Heat, flames and	sparks.





rsion	Revision Date: 28.09.2024	SDS Nu 773055	umber: 6-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021
	patible materials dous decomposition cts		idizing ager hazardous	nts decomposition products are known.
ction 11	: Toxicological inform	ation		
Inform expos	ation on likely routes of ure	Skir Inge	alation contact estion contact	
	toxicity ul if swallowed.			
Produ	<u>ict:</u>			
Acute	oral toxicity			stimate: 1,291 mg/kg ation method
Acute	inhalation toxicity	Exp Tes	osure time: t atmosphe	stimate: > 5 mg/l 4 h re: dust/mist ation method
<u>Comp</u>	onents:			
Xylen	e:			
Acute	oral toxicity		60 (Rat): 3,5 hod: Directi	23 mg/kg ve 67/548/EEC, Annex V, B.1.
Acute	inhalation toxicity	Exp	60 (Rat): 27 osure time: t atmosphe	4 h
Acute	dermal toxicity	: LD5	i0 (Rabbit):	> 4,200 mg/kg
Calciu	um dodecylbenzenesul	phonate	e:	
Acute	oral toxicity	Met	hod: OECD	500 - 2,000 mg/kg Test Guideline 401 ed on data from similar materials
Acute	dermal toxicity	Met	hod: OECD	> 2,000 mg/kg Test Guideline 402 d on data from similar materials
-	phenol, ethoxylated:			
Acute	oral toxicity	: LD5	60 (Rat): 50	0 - 2,000 mg/kg
deltar	nethrin (ISO):			
	oral toxicity		60 (Rat): 66	<b>—</b> "



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		LD50 (Rat): 9 - 13	39 mg/kg
		LD50 (Mouse): 19	9 - 34 mg/kg
inhalation toxicity	:	LC50 (Rat): 0.8 m Exposure time: 2 Test atmosphere:	ĥ
dermal toxicity	:	LD50 (Rabbit): 2,	000 mg/kg
		LD50 (Rat): > 800	) mg/kg
	:	LD50 (Rat): 2.5 m Application Route	
		LD50 (Mouse): 10 Application Route	
i-tert-butvl-p-cresol:			
	:	LD50 (Rat): > 6,0 Method: OECD T	
dermal toxicity	:		00 mg/kg est Guideline 402 substance or mixture has no acute derma
oonents:			
e:			
	:	Rabbit	
	:	Skin irritation	
um dodecylbenzenesu	lph	onate:	
	:	Rabbit	
	:		eline 404
	÷		om similar materials
Iphenol, ethoxylated:			
	:	Rabbit	
	:	OECD Test Guide No skin irritation	eline 404
methrin (ISO)·			
es	:	Rabbit	
	28.09.2024 inhalation toxicity dermal toxicity itert-butyl-p-cresol: oral toxicity dermal toxicity dermal toxicity corrosion/irritation es skin irritation. ponents: ne: es t um dodecylbenzenesul es bd t t methrin (ISO):	28.09.2024       77         inhalation toxicity       :         dermal toxicity       :         toxicity (other routes of instration)       :         i-tert-butyl-p-cresol:       :         oral toxicity       :         dermal toxicity       :         dermal toxicity       :         dermal toxicity       :         oral toxicity       :         dermal toxicity       :         oral toxicity       :         odermal toxicity       :         methrin (ISO):       :	28.09.2024       7730556-00010         LD50 (Rat): 9 - 13         LD50 (Mouse): 19         Inhalation toxicity       LC50 (Rat): 0.8 m Exposure time: 2 Test atmosphere:         Idermal toxicity       LD50 (Rat): 0.8 m Exposure time: 2 Test atmosphere:         Idermal toxicity       LD50 (Rat): 0.8 m Exposure time: 2 Test atmosphere:         Idermal toxicity       LD50 (Rat): 2.0 (Rat): > 800         Idermal toxicity       LD50 (Rat): 2.5 m Application Route         Idermal toxicity       LD50 (Rat): 2.5 m Application Route         Idermal toxicity       LD50 (Rat): 2.0 Method: OECD T         Idermal toxicity       LD50 (Rat): > 2.0 Method: OECD T         Idermal toxicity       Skin iriritation         Idermal tox



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_			
Resul	t	: No skin irritatio	n
2,6-D	i-tert-butyl-p-cresol:		
Speci		: Rabbit	
Metho		: OECD Test Gu	
Resul Rema	-	: No skin irritatio : Based on data	n from similar materials
Serio	us eye damage/eye	irritation	
Cause	es serious eye damag	je.	
<u>Comp</u>	oonents:		
Xylen			
Speci		: Rabbit	- nous and a suithing O4 should be
Resul	t	: Irritation to eye	s, reversing within 21 days
Calci	um dodecylbenzene	sulphonate:	
Speci		: Rabbit	_
Resul	-	: Irreversible effe	
Metho Rema		: OECD Test Gu : Based on data	from similar materials
Nony	Iphenol, ethoxylated	4-	
Speci	•	: Rabbit	
Resul		: Irreversible effe	ects on the eye
Metho	bd	: OECD Test Gu	
delta	methrin (ISO):		
Speci		: Rabbit	
Resul	t	: Moderate eye i	rritation
2,6-D	i-tert-butyl-p-cresol:		
Speci		: Rabbit	
Resul		: No eye irritation	
Metho Rema		: OECD Test Gu	ideline 405 from similar materials
1701119	uno	. Daseu un udla	חסחו אוווומו ווומנכוומוא
Resp	iratory or skin sensi	tisation	
-	sensitisation		
Mav c	ause an allergic skin	reaction.	

Not classified based on available information.



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0			
	oonents:		
Xylen			
Test			de assay (LLNA)
	sure routes	: Skin contact	
Speci Resul		: Mouse	
Resu	I	: negative	
Calci	um dodecylbenzene	sulphonate:	
Test		: Maximisation T	est
	sure routes	: Skin contact	
Speci		: Guinea pig	
Metho		: OECD Test Gu	Ideline 406
Resul Rema		: negative	from similar materials
Reine		. Dased on data	
Nony	Iphenol, ethoxylated	J:	
Test		: Maximisation T	est
	sure routes	: Skin contact	
Speci		: Guinea pig	
Resul		: negative	for an aim ile and a taniala
Rema	arks	: Based on data	from similar materials
delta	methrin (ISO):		
Test	Гуре	: Maximisation T	est
	sure routes	: Dermal	
Speci		: Guinea pig	
Resul	lt	: negative	
Test			insult patch test (HRIPT)
	sure routes	: Dermal	
Speci Resul		: Humans	
Resu	I	: positive	
2,6-D	i-tert-butyl-p-cresol		
Test 7			insult patch test (HRIPT)
	sure routes	: Skin contact	
Speci		: Humans	
Resul	It	: negative	
Germ	cell mutagenicity		
	lassified based on av	ailable information.	
<u>Com</u>	ponents:		
Xylen	ne:		
-	toxicity in vitro	: Test Type: Bac	terial reverse mutation assay (AMES)
		Result: negativ	



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		Test Type: C Result: nega	Chromosome aberration test in vitro
		Test Type: lı Result: nega	n vitro mammalian cell gene mutation test ative
		Test Type: Ir malian cells Result: nega	n vitro sister chromatid exchange assay in mam- ntive
Geno	toxicity in vivo	Species: Mo	Route: Skin contact
Calci	um dodecylbenzene	sulphonate:	
Geno	toxicity in vitro	Method: OE Result: nega	Bacterial reverse mutation assay (AMES) CD Test Guideline 471 ative ased on data from similar materials
		Result: nega	n vitro mammalian cell gene mutation test ative ased on data from similar materials
		Method: OE Result: nega	Chromosome aberration test in vitro CD Test Guideline 473 ative ased on data from similar materials
Geno	toxicity in vivo	cytogenetic a Species: Mo Application F Result: nega	use Route: Ingestion
Nony	lphenol, ethoxylated	1.	
-	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative ased on data from similar materials
delta	methrin (ISO):		
	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: D Test system Result: nega	: Escherichia coli

Result



## Deltamethrin (3%) Formulation

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			Test system: C	omosomal aberration hinese hamster ovary cells
			Test system: C	tro mammalian cell gene mutation test hinese hamster lung cells LOAEL: 20 mg/kg
Geno	toxicity in vivo	:	Test Type: Mich Species: Mouse Application Rou Result: negative	e ite: Oral
			Test Type: dom Species: Mouse Application Rou Result: negative	ite: Oral
			Test Type: siste Species: Mouse Cell type: Bone Application Rou Result: negative	marrow ite: Oral
2 6-D	i-tert-butyl-p-cresc			
	toxicity in vitro	:	Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
			Test Type: In vi Result: negative	tro mammalian cell gene mutation test e
			Test Type: Chro Result: negative	omosome aberration test in vitro e
Geno	toxicity in vivo	:		agenicity (in vivo mammalian bone-marrow t, chromosomal analysis) ute: Ingestion
Carci	inogenicity		Result: negative	
	lassified based on a	vailable	information.	
<u>Com</u>	ponents:			
Xyler	ne:			
	cation Route sure time	:	Rat Ingestion 103 weeks	

: negative



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deltamethrin (ISO): Species Application Route Exposure time NOAEL LOAEL Result Target Organs	:	Mouse, male and female oral (feed) 104 weeks 8 mg/kg body weight 4 mg/kg body weight positive Lymph nodes
Species Application Route Exposure time Result	:	Rat, male and female oral (feed) 2 Years negative
Species Application Route Exposure time NOAEL Result	:	Dog, male and female oral (feed) 2 Years 1 mg/kg body weight negative

### 2,6-Di-tert-butyl-p-cresol:

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	22 Months
Result	:	negative

### **Reproductive toxicity**

Suspected of damaging fertility. Suspected of damaging the unborn child.

### Components:

Effects on fertility	:	Test Type: One-generation reproduction toxicity study Species: Rat Application Route: inhalation (vapour) Result: negative
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: inhalation (vapour) Result: negative

### Calcium dodecylbenzenesulphonate:

Effects on fertility	:	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422
		Method: OECD Test Guideline 422
		Result: negative



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		Remarks: Bas	sed on data from similar materials
Effect ment	ts on foetal develop-	reproduction/o Species: Rat Application Ro Method: OEC Result: negati	ombined repeated dose toxicity study with the developmental toxicity screening test oute: Ingestion D Test Guideline 422 ive sed on data from similar materials
delta	methrin (ISO):		
Effect	ts on fertility	Species: Rat Application Re Early Embryo weight Symptoms: N	ree-generation reproduction toxicity study oute: oral (feed) nic Development: NOAEL: 50 mg/kg body o effects on fertility, Embryo-foetal toxicity nificant toxicity observed in testing
		Species: Rat Application Re Early Embryo weight	vo-generation reproduction toxicity study oute: Oral nic Development: LOAEL: 84 - 149 mg/kg body o effects on fertility, Embryo-foetal toxicity
			male oute: Oral EL: 1 mg/kg body weight ffects on fertility
Effect ment	ts on foetal develop-	Developmenta Result: Skelet	
		Developmenta	
Repro	oductive toxicity - As-	: Some evidend	ce of adverse effects on sexual function and



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sessn	nent	fertility, and/	or on development, based on animal experiments
	i-tert-butyl-p-cresol: is on fertility	Species: Ra	Route: Ingestion
Effect ment	s on foetal develop-	Species: Ra	Route: Ingestion
	- single exposure cause respiratory irritat	ion.	
Com	oonents:		
<b>Xylen</b> Asses	ne: ssment	: May cause r	espiratory irritation.
	<b>methrin (ISO):</b> ssment	: May cause r	espiratory irritation.
May o			ed or repeated exposure.
<u>Com</u>	oonents:		
Targe	ne: sure routes et Organs ssment		
Calci	um dodecylbenzenes	ulphonate:	
	ssment	: No significar	nt health effects observed in animals at concentr mg/kg bw or less.
Expos Targe	<b>methrin (ISO):</b> sure routes et Organs ssment		ous system, Immune system hage to organs through prolonged or repeated
Targe	sure routes et Organs ssment	: Central nerv	ust/mist/fume) ous system nage to organs through prolonged or repeated



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260	i tart butul a aracal		
	i-tert-butyl-p-cresol: ssment		ealth effects observed in animals at concent /kg bw or less.
Repe	ated dose toxicity		
Comp	oonents:		
Xylen	ie:		
Speci		: Rat	
LOAE		: > 0.2 - 1 mg/l	
	cation Route	: inhalation (vapo	our)
	sure time	: 13 Weeks	
Rema	arks	: Based on data	rom similar materials
Speci	es	: Rat	
LÖAE		: 150 mg/kg	
	cation Route sure time	: Ingestion : 90 Days	
	L cation Route sure time od	: Rabbit	deline 422 irom similar materials
Speci NOAE	EL	: > 100 mg/kg	
NOAE Applic	EL cation Route	: Skin contact	
NOAE Applic Expose Metho	EL cation Route sure time od	: Skin contact : 28 Days : OECD Test Gu	
NOAE Applic Expos	EL cation Route sure time od	: Skin contact : 28 Days : OECD Test Gu	deline 410 from similar materials
NOAE Applic Expose Metho Rema	EL cation Route sure time od	: Skin contact : 28 Days : OECD Test Gu	
NOAE Applic Expose Metho Rema deltai Speci	EL cation Route sure time od arks <b>methrin (ISO):</b> es	: Skin contact : 28 Days : OECD Test Gu	rom similar materials
NOAE Applic Expose Metho Rema <b>deltar</b> Speci NOAE	EL cation Route sure time od arks <b>methrin (ISO):</b> es EL	<ul> <li>Skin contact</li> <li>28 Days</li> <li>OECD Test Gu</li> <li>Based on data</li> <li>Rat, male and f</li> <li>1 mg/kg</li> </ul>	rom similar materials
NOAE Applic Expose Metho Rema <b>delta</b> Speci NOAE LOAE	EL cation Route sure time od arks <b>methrin (ISO):</b> es EL	<ul> <li>Skin contact</li> <li>28 Days</li> <li>OECD Test Gu</li> <li>Based on data</li> <li>Rat, male and f</li> <li>1 mg/kg</li> <li>2.5 mg/kg</li> </ul>	rom similar materials
NOAE Applic Expose Metho Rema deltai Speci NOAE LOAE Applic	EL cation Route sure time od arks <b>methrin (ISO):</b> es EL EL cation Route	<ul> <li>Skin contact</li> <li>28 Days</li> <li>OECD Test Gu</li> <li>Based on data</li> <li>Rat, male and f</li> <li>1 mg/kg</li> <li>2.5 mg/kg</li> <li>Oral</li> </ul>	rom similar materials
NOAE Applic Expose Metho Rema deltau Speci NOAE LOAE Applic Expose	EL cation Route sure time od arks <b>methrin (ISO):</b> es EL EL cation Route sure time	<ul> <li>Skin contact</li> <li>28 Days</li> <li>OECD Test Gu</li> <li>Based on data</li> <li>Rat, male and f</li> <li>1 mg/kg</li> <li>2.5 mg/kg</li> <li>Oral</li> <li>13 Weeks</li> </ul>	irom similar materials emale
NOAE Applic Expose Metho Rema deltau Speci NOAE LOAE Applic Expose	EL cation Route sure time od arks <b>methrin (ISO):</b> es EL cation Route sure time et Organs	<ul> <li>Skin contact</li> <li>28 Days</li> <li>OECD Test Gu</li> <li>Based on data</li> <li>Rat, male and f</li> <li>1 mg/kg</li> <li>2.5 mg/kg</li> <li>Oral</li> </ul>	irom similar materials emale
NOAE Applic Expose Metho Rema deltar Speci NOAE LOAE Applic Expose Targe	EL cation Route sure time od arks <b>methrin (ISO):</b> es EL EL cation Route sure time et Organs toms	<ul> <li>Skin contact</li> <li>28 Days</li> <li>OECD Test Gu</li> <li>Based on data</li> <li>Rat, male and f</li> <li>1 mg/kg</li> <li>2.5 mg/kg</li> <li>Oral</li> <li>13 Weeks</li> <li>Nervous system</li> </ul>	irom similar materials emale
NOAE Applic Expose Metho Rema <b>deltai</b> Speci NOAE LOAE Applic Expose Targe Symp Speci LOAE	EL cation Route sure time od arks <b>methrin (ISO):</b> es EL cation Route sure time et Organs toms es	<ul> <li>Skin contact</li> <li>28 Days</li> <li>OECD Test Gu</li> <li>Based on data</li> <li>Rat, male and f</li> <li>1 mg/kg</li> <li>2.5 mg/kg</li> <li>Oral</li> <li>13 Weeks</li> <li>Nervous system</li> <li>hyperexcitability</li> <li>Rat</li> <li>3 mg/m3</li> </ul>	irom similar materials emale r
NOAE Applic Expose Metho Rema <b>deltan</b> Speci NOAE LOAE Applic Expose Targe Symp Speci LOAE Applic	EL cation Route sure time od arks <b>methrin (ISO):</b> es EL cation Route sure time et Organs toms es EL cation Route	<ul> <li>Skin contact</li> <li>28 Days</li> <li>OECD Test Gu</li> <li>Based on data</li> <li>Rat, male and f</li> <li>1 mg/kg</li> <li>2.5 mg/kg</li> <li>Oral</li> <li>13 Weeks</li> <li>Nervous system</li> <li>hyperexcitability</li> <li>Rat</li> <li>3 mg/m3</li> <li>inhalation (dust</li> </ul>	irom similar materials emale / /mist/fume)
NOAE Applic Expose Metho Rema <b>deltan</b> Speci NOAE LOAE Applic Expose Targe Symp Speci LOAE Applic	EL cation Route sure time od arks methrin (ISO): es EL cation Route sure time et Organs toms es EL cation Route sure time	<ul> <li>Skin contact</li> <li>28 Days</li> <li>OECD Test Gu</li> <li>Based on data</li> <li>Rat, male and f</li> <li>1 mg/kg</li> <li>2.5 mg/kg</li> <li>Oral</li> <li>13 Weeks</li> <li>Nervous system</li> <li>hyperexcitability</li> <li>Rat</li> <li>3 mg/m3</li> <li>inhalation (dust</li> <li>2 wk / 5 d/wk / 0</li> </ul>	irom similar materials emale / /mist/fume)

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## Deltamethrin (3%) Formulation

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Cree	ing	. Dec	
Spec NOA		: Dog : 0.1 mg/kg	
LOAE		: 1 mg/kg	
	cation Route	: Oral	
	sure time	: 13 Weeks	
	et Organs	: Nervous syst	iem
Symp	otoms	: Dilatation of t tion	the pupil, Vomiting, Tremors, Diarrhoea, Saliva
Spec		: Rat	
NOA		: 14 mg/kg	
LOAE		: 54 mg/kg	
	cation Route sure time	: Oral : 91 d	
	et Organs	: Nervous syst	lem
Spec		: Mouse	
LOAE		: 6 mg/kg	
	cation Route	: Oral	
	sure time et Organs	: 12 Weeks	am and a second s
	otoms	: Immune syst : immune syst	
2,6-D	)i-tert-butyl-p-cresol		
Spec		: Rat	
NOA		: 25 mg/kg	
Appli	cation Route	: Ingestion	
Expo	sure time	: 22 Months	
-	ration toxicity		
	be fatal if swallowed a <b>ponents:</b>	nd enters airways.	
Xyler			
-		e known to cause hu	man aspiration toxicity hazards or has to be re-
	ed as if it causes a hu		
Expe	erience with human e	exposure	
<u>Com</u>	ponents:		
delta	methrin (ISO):		
Inhala	ation	Headache, N	espiratory tract irritation, Dizziness, Sweating, lausea, Vomiting, anorexia, Fatigue, tingling, Blurred vision, muscle twitching
Skin	contact	: Symptoms: S sea, Vomiting	Skin irritation, Erythema, pruritis, Headache, Na g, Dizziness, tingling, Sweating, muscle twitchir
Inges	stion		n, Fatigue, anorexia, Allergic reactions nuscle pain, Small pupils



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### Section 12: Ecological information

Toxicity		
Components:		
Xylene:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 13.5 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 24 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	EC50 (Skeletonema costatum (marine diatom)): 10 mg/l Exposure time: 72 h
Toxicity to fish (Chronic tox- icity)	:	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
Toxicity to daphnia and other aquatic invertebrates (Chron-	:	EL10 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 21 d
ic toxicity)		Method: OECD Test Guideline 211 Remarks: Based on data from similar materials
Toxicity to microorganisms	:	NOEC: > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials
Calcium dodecylbenzenesu	lph	onate:
Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): > 1 - 10 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 48 h
aqualic invertebrates		Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 10 - 100 mg/l Exposure time: 72 h Remarks: Based on data from similar materials
		NOEC (Pseudokirchneriella subcapitata (green algae)): > 0.1 - 1 mg/l Exposure time: 72 h Remarks: Based on data from similar materials



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	Toxicity icity)	r to fish (Chronic tox-	:	mg/l Exposure time: 28	es promelas (fathead minnow)): > 0.1 - 1 d on data from similar materials
		to daphnia and other invertebrates (Chron- ty)	:	Exposure time: 21	nagna (Water flea)): > 1 mg/l d on data from similar materials
	Toxicity	to microorganisms	:	EC50 (activated s Exposure time: 3   Method: OECD Te Remarks: Based o	n
	Nonylp Toxicity	<b>henol, ethoxylated:</b> to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 0.1 - 1 mg/l i h on data from similar materials
		to daphnia and other invertebrates	:	Exposure time: 48	nia dubia (water flea)): > 0.1 - 1 mg/l h on data from similar materials
	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	
				Exposure time: 72 Method: OECD Te	
		or (Acute aquatic tox-	:	1	
	icity) Toxicity icity)	to fish (Chronic tox-	:	Exposure time: 10	tipes (Japanese medaka)): > 0.1 - 1 mg/l 0 d on data from similar materials
		to daphnia and other invertebrates (Chron- ty)	:	mg/l Exposure time: 28	s bahia (opossum shrimp)): > 0.001 - 0.01 d on data from similar materials
	M-Factor toxicity)	or (Chronic aquatic	:	10	
	• •	ethrin (ISO):			
	Toxicity	r to fish	:	LC50 (Cyprinodor mg/l	n variegatus (sheepshead minnow)): 0.00048



/ersion 8.1	Revision Date: 28.09.2024		0S Number: 30556-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021
			Exposure time: 96	5 h
			LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0.00039 mg/l ን h
	ty to daphnia and other c invertebrates	:	EC50 (Mysidopsis Exposure time: 48	s bahia (opossum shrimp)): 0.0037 μg/l 3 h
			EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 0.0035 mg/l 3 h
			LC50 (Gammarus Exposure time: 96	s fasciatus (freshwater shrimp)): 0.0003 μg/l δ h
Toxicit plants	ty to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	
	tor (Acute aquatic tox-	:	1,000,000	
icity) Toxicit icity)	ty to fish (Chronic tox-	:	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
aquati	ty to daphnia and other c invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.0041 μg/l I d
ic toxic M-Fac toxicity	tor (Chronic aquatic	:	1,000,000	
2,6-Di	-tert-butyl-p-cresol:			
Toxicit	ty to fish	:	Exposure time: 96	o (zebra fish)): > 0.57 mg/l 5 h 67/548/EEC, Annex V, C.1.
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicit plants	ty to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokin mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 0.24 2 h



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				Method: OECD Te	est Guideline 201	
		or (Acute aquatic tox-	:	1		
	icity) Toxicity to fish (Chronic tox- icity)		:	NOEC (Oryzias la Exposure time: 30 Method: OECD Te		
	aquatic	Toxicity to daphnia and other aquatic invertebrates (Chron-		NOEC (Daphnia magna (Water flea)): 0.316 mg/l Exposure time: 21 d		
		or (Chronic aquatic	:	1		
	toxicity) Toxicity to microorganisms		:	EC50: > 10,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209		
	Persistence and degradabil <u>Components:</u>		ty			
	<b>Xylene</b> Biodeg	: radability	:		> 70 %	
	Calcium dodecylbenzenes		Inh	onate:		
		radability	:	Result: Readily bi	odegradable. on data from similar materials	
	Nonylp	phenol, ethoxylated:				
	Biodeg	radability	:	Result: Not readily Remarks: Based o	y biodegradable. on data from similar materials	
	deltam	ethrin (ISO):				
	Stability	y in water	:	Hydrolysis: 0 %(3	0 d)	
	•	<b>tert-butyl-p-cresol:</b> radability	:	Result: Not readily Biodegradation: 4 Exposure time: 28 Method: OECD To	1.5 %	



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Bioad	cumulative potential			
<u>Com</u>	oonents:			
	ne: on coefficient: n- ol/water	:	log Pow: 3.16 Remarks: Calcu	lation
Calci	um dodecylbenzenes	ulpho	onate:	
Bioac	cumulation	:		n factor (BCF): < 500 I on data from similar materials
	on coefficient: n- ol/water	:	log Pow: 4.77 Remarks: Calcu	lation
Nony	Iphenol, ethoxylated:	:		
	on coefficient: n- ol/water	:	log Pow: 4.48	
	methrin (ISO):			
Bioac	cumulation	:		is macrochirus (Bluegill sunfish) n factor (BCF): 1,800
	on coefficient: n- ol/water	:	log Pow: 4.6	
2,6-D	i-tert-butyl-p-cresol:			
Bioac	cumulation	:	Species: Cyprin Bioconcentration	us carpio (Carp) n factor (BCF): 330 - 1,800
	on coefficient: n- ol/water	:	log Pow: 5.1	
Mobi	lity in soil			
Com	oonents:			
Distri	methrin (ISO): oution among environ- al compartments	:	log Koc: 7.2	
	adverse effects ata available			

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.



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			Do not pressurize	e, cut, weld, braze, solder, drill, grind, or ex-
			pose such contai of ignition. They r	ners to heat, flame, sparks, or other sources nay explode and cause injury and/or death. pecified: Dispose of as unused product.
Sectio	on 14: Transport informa	ation		
In	nternational Regulations	5		
U	NRTDG N number N proper shipping name	:	UN 1993 FLAMMABLE LIC (Xylene)	QUID, N.O.S.
P La	ransport hazard class(es) acking group abels nvironmental hazards		(Aylene) 3 III 3 no	
U	<b>ATA-DGR</b> N/ID No. N proper shipping name	:	UN 1993 Flammable liquid (Xylene)	, n.o.s.
P La P	ransport hazard class(es) acking group abels acking instruction (cargo ircraft)	:	3 III Flammable Liquid 366	ds
P	acking instruction (passe er aircraft)	n- :	355	
U	<b>IDG-Code</b> IN number roper shipping name	:	UN 1993 FLAMMABLE LIC (Xvlene, deltame	QUID, N.O.S. thrin (ISO), 2,6-Di-tert-butyl-p-cresol)
P La E M	ransport hazard class(es) acking group abels mS Code larine pollutant	:	3 III 3 F-E, <u>S-E</u> yes	

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.



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### Section 15: Regulatory information

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

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management (Hazard- ous Substances) Regulations	•	oxylates	
Fire Safety (Petroleum and Flammable Materials) Regulations	:	Mixed Xylenes Isomers Xylenes	

### The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

#### Section 16: Other information

Revision Date :		28.09.2024				
Further information						
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/				
Date format	:	dd.mm.yyyy				
Full text of other abbreviations						
ACGIH ACGIH BEI SG BTLV SG OEL	:	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) Singapore. Biological Threshold Limit Values Singapore. Workplace Safety and Health (General Provisions) Regulations - First Schedule Permissible Exposure Limits of Toxic Substances.				
ACGIH / TWA SG OEL / PEL (long term) SG OEL / PEL (short term)	::	8-hour, time-weighted average Permissible Exposure Level (PEL) Long Term Permissible Exposure Level (PEL) Short Term				

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

### SAFETY DATA SHEET



## Deltamethrin (3%) Formulation

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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.

SG / EN