

Version 10.0	Revision Date: 06.07.2024		S Number: 33311-00020		sue: 06.04.2024 sue: 12.12.2017
Section 1	: Identification				
Produ	uct name	:	Deltamethrin (5%	b) Formulation	
Manu	afacturer or supplier's d	etai	ils		
Com	bany	:	MSD		
Addre	ess	:	33 Whakatiki Stre Upper Hutt - New		g 908
Telep	bhone	:	0800 800 543		
Emer	gency telephone number	:	0800 764 766 (08 CHEMCALL)	800 POISON)	0800 243 622 (0800
E-ma	il address	:	EHSDATASTEW	ARD@msd.cor	n
Reco	ommended use of the ch	nem	ical and restrictio	ons on use	
	mmended use rictions on use	:	Veterinary produce Not applicable	ct	
Section 2	: Hazard identification				
GHS	Classification				
Flam	mable liquids	:	Category 3		
Acute	e toxicity (Oral)	:	Category 4		
Skin	corrosion/irritation	:	Category 2		
Serio tation	us eye damage/eye irri- n	:	Category 1		
Skin	sensitisation	:	Category 1		
Repro	oductive toxicity	:	Category 2		
	ific target organ toxicity - e exposure	:	Category 3		

Specific target organ toxicity - : Category 2 (Central nervous system, Immune system) repeated exposure (Oral)

Specific target organ toxicity - : Category 2 (Central nervous system) repeated exposure (Inhalation)



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Aspira	ation hazard	: Category	1
	rdous to the aquatic onment - acute hazard	: Category	1
	rdous to the aquatic onment - chronic hazard	: Category	1
GHS	label elements		
Haza	rd pictograms		
Signa	al word	: Danger	• • • •
Haza	rd statements	H302 Harr H304 May H315 Cau H317 May H318 Cau H335 May H336 May H361fd Su ing the un H373 May Immune s swallowed H373 May through pr	nmable liquid and vapour. mful if swallowed. be fatal if swallowed and enters airways. ses skin irritation. cause an allergic skin reaction. ses serious eye damage. cause respiratory irritation. cause drowsiness or dizziness. uspected of damaging fertility. Suspected of damag- born child. cause damage to organs (Central nervous system, ystem) through prolonged or repeated exposure if l. cause damage to organs (Central nervous system) rolonged or repeated exposure if inhaled. y toxic to aquatic life with long lasting effects.
Preca	autionary statements	P202 Do r and under P210 Kee and other P233 Kee P241 Use ment. P242 Use P243 Take P260 Do r P264 Was P270 Do r P271 Use P272 Con the workp P273 Avoi	ain special instructions before use. not handle until all safety precautions have been read stood. p away from heat, hot surfaces, sparks, open flames ignition sources. No smoking. p container tightly closed. explosion-proof electrical/ ventilating/ lighting equip- non-sparking tools. e action to prevent static discharges. not breathe mist or vapours. sh skin thoroughly after handling. not eat, drink or smoke when using this product. only outdoors or in a well-ventilated area. taminated work clothing should not be allowed out of



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tion/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ 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.

 $\mathsf{P333}$ + $\mathsf{P313}$ 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)
Hydrocarbons, C9, aromatics	Not Assigned	>= 30 -< 50
2-Methoxy-1-methylethyl acetate	108-65-6	>= 20 -< 30
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts	Not Assigned	>= 3 -< 10
2-Methyl-1-propanol	78-83-1	>= 3 -< 10
deltamethrin (ISO)	52918-63-5	>= 2.5 -< 10

Section 4: First-aid measures

General advice

In the case of accident or if you feel unwell, seek medical advice immediately.

fighting



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		When symptom advice.	ns persist or in all cases of doubt seek medica			
lf inha	aled	: If inhaled, remo				
In cas	se of skin contact	for at least 15 r and shoes. Get medical att Wash clothing	act, immediately flush skin with plenty of wate ninutes while removing contaminated clothing ention.			
In cas	se of eye contact	: In case of conta for at least 15 r If easy to do, re	act, immediately flush eyes with plenty of wate ninutes. emove contact lens, if worn.			
lf swa	allowed	 Get medical attention immediately. 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. 				
and e delay Prote	important symptoms effects, both acute and ed ction of first-aiders	 Harmful if swall May be fatal if s Causes skin irr May cause serious May cause and Causes serious May cause and Suspected of d unborn child. May cause dan exposure if swall May cause dan exposure if inha This product co Pyrethroid pois or organophosp First Aid resport and use the recovered 	lowed. swallowed and enters airways. itation. allergic skin reaction. s eye damage. biratory irritation. wsiness or dizziness. amaging fertility. Suspected of damaging the nage to organs through prolonged or repeated allowed. nage to organs through prolonged or repeated			
Section 5	: Fire-fighting measure	S				
	ble extinguishing media	: Water spray Alcohol-resista Carbon dioxide Dry chemical				
Unsu media	itable extinguishing a	: High volume wa	ater jet			
0						





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Haza ucts	rdous combustion prod-	:	Carbon oxides Nitrogen oxides Bromine compou Sulphur oxides Metal oxides		
Spec ods	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 so.		
for fir	ial protective equipment refighters hem Code	:	Evacuate area. In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. 3Y		
Section 6	: Accidental release me	as	ures		
tive e	Personal precautions, protec- tive equipment and emer- gency procedures		Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice (see section 7) and personal p tective equipment recommendations (see section 8).		
Envir	Environmental precautions		Prevent further le Prevent spreadir barriers). Retain and dispo	the environment. eakage or spillage if safe to do so. ng over a wide area (e.g. by containment or c ose of contaminated wash water. should be advised if significant spillages ned.	
	ods and materials for ainment and cleaning up	:	Soak up with ine Suppress (knock spray jet. For large spills, p ment to keep ma be pumped, stor Clean up remain bent. Local or national posal of this mat employed in the mine which regu Sections 13 and	ols should be used. rt absorbent material. c down) gases/vapours/mists with a water provide dyking or other appropriate contain- naterial from spreading. If dyked material can e recovered material in appropriate container ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding ational requirements.	

Section 7: Handling and storage

Technical measures

: See Engineering measures under EXPOSURE



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Local	/Total ventilation	: If sufficient ven ventilation.	ERSONAL PROTECTION section. tilation is unavailable, use with local exhaust proof electrical, ventilating and lighting equip-		
Advice on safe handling		 ment. 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 assessment 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 respiratory 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. 			
Hygie	ene measures	: If exposure to o flushing system place. When using do Contaminated workplace. Wash contamin The effective of engineering con appropriate deg	chemical is likely during typical use, provide eye as and safety showers close to the working not eat, drink or smoke. work clothing should not be allowed out of the nated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the rative controls		
Cond	itions for safe storage	: Keep in proper Store locked up Keep tightly clo Keep in a cool, Store in accord	y labelled containers. 5.		
Mate	rials to avoid	: Do not store wi Self-reactive su Organic peroxid Oxidizing agen Flammable gas Pyrophoric liqu Pyrophoric solid	th the following product types: lbstances and mixtures des ts ses ids ds bstances and mixtures		



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Explosives

Section 8: Exposure controls/personal protection

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Hydrocarbons, C9, aromatics	Not Assigned	WES-TWA	300 ppm 890 mg/m3	NZ OEL
		WES-STEL	500 ppm 1,480 mg/m3	NZ OEL
2-Methyl-1-propanol	78-83-1	WES-TWA	50 ppm 152 mg/m3	NZ OEL
		TWA	50 ppm	ACGIH
deltamethrin (ISO)	52918-63-5	TWA	15 µg/m3 (OEB 3)	Internal
	Further informa	ation: DSEN, Sk	in	
		Wipe limit	100 µg/100 cm ²	Internal

Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compound are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con- tainment devices). Minimize open handling.	
	Use explosion-proof electrical, ventilating and lighting equip- ment.	
Personal protective equipmen	t	
Respiratory protection:Filter type:Hand protection	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type	
Material :	Chemical-resistant gloves	
Remarks : Eye protection :	Consider double gloving. Take note that the product is flam- mable, which may impact the selection of hand protection. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or	



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Sł	kin and body protection	:	task being perform posable suits) to a	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. egowning techniques to remove potentially
ectio	n 9: Physical and chemica	l pro	operties	
Ap	opearance	:	liquid	
Co	olour	:	yellow	
00	dour	:	No data available)
00	dour Threshold	:	No data available)
p⊦	ł	:	3 - 5	
M	elting point/freezing point	:	No data available)
	itial boiling point and boiling nge	:	No data available	
Fla	ash point	:	45 - 51 °C	
E١	vaporation rate	:	No data available	•
Fla	ammability (solid, gas)	:	Not applicable	
Fla	ammability (liquids)	:	Not applicable	
	oper explosion limit / Upper Immability limit	:	No data available	•
	ower explosion limit / Lower Immability limit	:	No data available	
Va	apour pressure	:	No data available)
Re	elative vapour density	:	No data available)
Re	elative density	:	No data available)
De	ensity	:	0.963 - 0.967 g/c	m ³
So	blubility(ies) Water solubility	:	completely miscil	ble
	artition coefficient: n- stanol/water	:	No data available	•

SAFETY DATA SHEET



Deltamethrin (5%) Formulation

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Decc Visco	-ignition temperature omposition temperature osity iscosity, kinematic	:	No data available No data available No data available	9	
	osive properties	:	Not explosive		
	Oxidizing properties Molecular weight		The substance or mixture is not classified as oxidizing. No data available		
	cle characteristics cle size	:	Not applicable		
Section 1	Section 10: Stability and reactivity				
Cher	ctivity nical stability ibility of hazardous reac-	:	Stable under nor Flammable liquid		

	Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	 Heat, flames and sparks. Oxidizing agents No hazardous decomposition products are known.

Section 11: Toxicological information

Exposure routes :	Inhalation Skin contact Ingestion Eye contact
Acute toxicity	
Harmful if swallowed.	
Product:	
Acute oral toxicity :	Acute toxicity estimate: 1,334 mg/kg Method: Calculation method
Acute inhalation toxicity :	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method



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Com	ponents:		
	ocarbons, C9, aroma	tics:	
-	e oral toxicity		t, female): 3,492 mg/kg
Acute	e inhalation toxicity	Exposure Test atmo	osphere: vapour ent: The substance or mixture has no acute inhala-
Acute	e dermal toxicity		bbit): > 3,160 mg/kg ent: The substance or mixture has no acute dermal
2-Me	thoxy-1-methylethyl	acetate:	
	e oral toxicity		t, female): 5,155 mg/kg
Acute	e inhalation toxicity	Exposure	t): > 9.34 mg/l time: 4 h osphere: vapour
Acute	e dermal toxicity	: LD50 (Ra Assessm toxicity	t): > 2,000 mg/kg ent: The substance or mixture has no acute dermal
Benz	enesulfonic acid, C1	0-13-alkyl deriv	s., calcium salts:
	e oral toxicity	•	t): 4,445 mg/kg
Acute	e dermal toxicity	Method: (t): > 2,000 mg/kg DECD Test Guideline 402 Based on data from similar materials
2-Me	thyl-1-propanol:		
Acute	e oral toxicity		t, female): 3,350 mg/kg DECD Test Guideline 401
Acute	e inhalation toxicity	Exposure	t): > 18.18 mg/l time: 6 h osphere: vapour
Acute	e dermal toxicity		bbit, female): 2,460 mg/kg DECD Test Guideline 402
delta	methrin (ISO):		
Acute	e oral toxicity	: LD50 (Ra	t): 66.7 mg/kg
		LD50 (Ra	t): 9 - 139 mg/kg



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			LD50 (Mouse): 1	9 - 34 mg/kg		
Acute inhalation toxicity		:	: LC50 (Rat): 0.8 mg/l Exposure time: 2 h Test atmosphere: dust/mist			
Acute dermal toxicity		:	: LD50 (Rabbit): 2,000 mg/kg			
			LD50 (Rat): > 80	0 mg/kg		
	toxicity (other routes of istration)	:	LD50 (Rat): 2.5 n Application Route			
			LD50 (Mouse): 1 Application Route			
	corrosion/irritation es skin irritation.					
<u>Comp</u>	oonents:					
Hydro	ocarbons, C9, aromatic	s:				
Asses	sment	:	Repeated exposi	ure may cause skin dryness or cracking		
		: etai		ure may cause skin dryness or cracking		
2-Met	hoxy-1-methylethyl ac	: etat		ure may cause skin dryness or cracking		
	hoxy-1-methylethyl acc	etat	te:	ure may cause skin dryness or cracking		
2-Met Specie Resul	hoxy-1-methylethyl acc	:	t e: Rabbit No skin irritation			
2-Met Specie Result Benze Specie	hoxy-1-methylethyl aco es t enesulfonic acid, C10-1 es	:	te: Rabbit No skin irritation alkyl derivs., calc Rabbit	ium salts:		
2-Met Specie Result Benze Specie Metho	hoxy-1-methylethyl ace es t enesulfonic acid, C10-1 es od	:	te: Rabbit No skin irritation alkyl derivs., calc Rabbit OECD Test Guid	ium salts:		
2-Met Specie Result Benze Specie	hoxy-1-methylethyl ace es t enesulfonic acid, C10-1 es od	:	te: Rabbit No skin irritation alkyl derivs., calc Rabbit	ium salts:		
2-Met Specie Result Benze Specie Metho Result	hoxy-1-methylethyl ace es t enesulfonic acid, C10-1 es od	:	te: Rabbit No skin irritation alkyl derivs., calc Rabbit OECD Test Guid			
2-Met Specie Result Benze Specie Metho Result 2-Met Specie	hoxy-1-methylethyl ace es t enesulfonic acid, C10-1 es od t hyl-1-propanol: es	:	te: Rabbit No skin irritation alkyl derivs., calci Rabbit OECD Test Guid Skin irritation Rabbit	ium salts: eline 404		
2-Met Specie Result Benze Specie Metho Result 2-Met	hoxy-1-methylethyl aco es t enesulfonic acid, C10-1 es od t hyl-1-propanol: es od	:	te: Rabbit No skin irritation alkyl derivs., calci Rabbit OECD Test Guid Skin irritation	ium salts: eline 404		
2-Met Specie Result Specie Metho Result 2-Met Specie Metho Result	hoxy-1-methylethyl ace es t enesulfonic acid, C10-1 es od t hyl-1-propanol: es od t	:	te: Rabbit No skin irritation alkyl derivs., calci Rabbit OECD Test Guid Skin irritation Rabbit OECD Test Guid	ium salts: eline 404		
2-Met Specie Result Specie Metho Result Specie Metho Result deltar	hoxy-1-methylethyl ace es t enesulfonic acid, C10-1 es od t hyl-1-propanol: es od t methrin (ISO):	:	te: Rabbit No skin irritation alkyl derivs., calci Rabbit OECD Test Guid Skin irritation Rabbit OECD Test Guid Skin irritation	ium salts: eline 404		
2-Met Specie Result Specie Metho Result 2-Met Specie Metho Result	hoxy-1-methylethyl ace es t enesulfonic acid, C10-1 es od t hyl-1-propanol: es od t methrin (ISO): es	:	te: Rabbit No skin irritation alkyl derivs., calci Rabbit OECD Test Guid Skin irritation Rabbit OECD Test Guid	ium salts: eline 404		
2-Met Specie Result Specie Metho Result 2-Met Specie Result deltar Specie Result	hoxy-1-methylethyl ace es t enesulfonic acid, C10-1 es od t hyl-1-propanol: es od t methrin (ISO): es t us eye damage/eye irri	: : : : :	te: Rabbit No skin irritation alkyl derivs., calci Rabbit OECD Test Guid Skin irritation Rabbit OECD Test Guid Skin irritation Rabbit No skin irritation	ium salts: eline 404		
2-Met Specie Result Specie Metho Result Specie Result deltar Specie Result Specie Result	hoxy-1-methylethyl ace es t enesulfonic acid, C10-1 es od t hyl-1-propanol: es od t methrin (ISO): es t us eye damage/eye irri es serious eye damage.	: : : : :	te: Rabbit No skin irritation alkyl derivs., calci Rabbit OECD Test Guid Skin irritation Rabbit OECD Test Guid Skin irritation Rabbit No skin irritation	ium salts: eline 404		
2-Met Specie Result Specie Metho Result Specie Result deltar Specie Result Specie Result Specie Result	hoxy-1-methylethyl ace es t enesulfonic acid, C10-1 es od t hyl-1-propanol: es od t methrin (ISO): es t us eye damage/eye irri es serious eye damage.	13-a	te: Rabbit No skin irritation alkyl derivs., calci Rabbit OECD Test Guid Skin irritation Rabbit OECD Test Guid Skin irritation Rabbit No skin irritation	ium salts: eline 404		
2-Met Specie Result Specie Metho Result Specie Result deltar Specie Result Specie Result Specie Result	hoxy-1-methylethyl ace es t enesulfonic acid, C10-1 es od t hyl-1-propanol: es od t methrin (ISO): es t us eye damage/eye irri es serious eye damage. <u>ponents:</u> pcarbons, C9, aromatic	13-a	te: Rabbit No skin irritation alkyl derivs., calci Rabbit OECD Test Guid Skin irritation Rabbit OECD Test Guid Skin irritation Rabbit No skin irritation	ium salts: eline 404		



Species



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Resu	lt	: No eye irritatio	n	
	thoxy-1-methylethyl			
Spec		: Rabbit		
Resu	It	: No eye irritation	n	
Benz	enesulfonic acid, C1	I0-13-alkyl derivs., ca	Icium salts:	
Spec	ies	: Rabbit		
Resu	lt	: Irreversible effe		
Metho	od	: OECD Test Gu	ideline 405	
2-Me	thyl-1-propanol:			
Spec		: Rabbit		
Resu		: Irreversible effe	ects on the eye	
Metho	od	: OECD Test Gu	ideline 405	
delta	methrin (ISO):			
Spec		: Rabbit		
Resu		: Moderate eye i	rritation	
Resp	iratory or skin sensi	itisation		
Skin	sensitisation			
May o	cause an allergic skin	reaction.		
Resp	iratory sensitisation			
•	lassified based on av			
Com	ponents:			
Hydr	ocarbons, C9, aroma	atics:		
Test	Туре	: Maximisation T	est	
Expo	sure routes	: Skin contact		
Spec		: Guinea pig		
Meth		: OECD Test Gu	ideline 406	
Resu	IT	: negative		
2-Me	thoxy-1-methylethyl	acetate:		
Test		: Maximisation T	est	
	sure routes	: Skin contact		
Spec		: Guinea pig		
Meth		: OECD Test Gu	lideline 406	
Resu	ii.	: negative		
Benz	enesulfonic acid, C1	10-13-alkyl derivs., ca	lcium salts:	
Test	Туре	: Magnusson-Kli	gman-Test	
	sure routes	: Skin contact		
Snec	ios	Guinea nia		

: Guinea pig



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Meth Rema		: OECD Test Guideline 406: Based on data from similar materials
2-Me	thyl-1-propanol:	
Test Type		: Buehler Test
Exposure routes :		: Skin contact
Spec		: Guinea pig
Meth Resu		: OECD Test Guideline 406
Rema		: negative : Based on data from similar materials
delta	methrin (ISO):	
Test	Туре	: Maximisation Test
	sure routes	: Dermal
Spec		: Guinea pig
Resu	lt	: negative
Test	Tvpe	: Human repeat insult patch test (HRIPT)
	sure routes	: Dermal
Spec		: Humans
Resu	lt	: positive
Chro	nic toxicity	
••	-	
Germ	n cell mutagenicity	
Germ Not c	lassified based on ava	ailable information.
Germ Not c <u>Com</u>	lassified based on ava	
Germ Not c <u>Com</u> Hydr	lassified based on ava ponents: ocarbons, C9, aroma	atics:
Germ Not c <u>Com</u> Hydr	lassified based on ava	
Germ Not c <u>Com</u> Hydr Geno	lassified based on ava ponents: ocarbons, C9, aroma	 atics: Test Type: Chromosome aberration test in vitro Result: negative Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Rat
Germ Not c <u>Com</u> Hydr Geno	lassified based on ava ponents: ocarbons, C9, aroma otoxicity in vitro	 atics: Test Type: Chromosome aberration test in vitro Result: negative Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
Germ Not c Com Hydr Geno Geno	lassified based on ava ponents: ocarbons, C9, aroma otoxicity in vitro	 atics: Test Type: Chromosome aberration test in vitro Result: negative Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Rat Application Route: inhalation (vapour) Result: negative
Germ Not c Com Hydr Genc Genc 2-Me	lassified based on ava ponents: ocarbons, C9, aroma otoxicity in vitro	 atics: Test Type: Chromosome aberration test in vitro Result: negative Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Rat Application Route: inhalation (vapour) Result: negative
Germ Not c Com Hydr Genc Genc 2-Me	lassified based on ava ponents: ocarbons, C9, aroma otoxicity in vitro otoxicity in vivo	 atics: Test Type: Chromosome aberration test in vitro Result: negative Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Rat Application Route: inhalation (vapour) Result: negative acetate: Test Type: Bacterial reverse mutation assay (AMES)





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Benz	enesulfonic acid, C1	10-13-a	alkyl derivs., cal	cium salts:
Geno	otoxicity in vitro	:	Method: Directive Result: negative	erial reverse mutation assay (AMES) ve 67/548/EEC, Annex, B.13/14 e d on data from similar materials
2-Me	thyl-1-propanol:			
Geno	Genotoxicity in vitro		Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
			Test Type: In vi Result: negative	ro mammalian cell gene mutation test
			Test Type: in vit Result: negative	ro micronucleus test
Geno	otoxicity in vivo	:	cytogenetic ass Species: Mouse Application Rou	te: Ingestion Test Guideline 474
delta	methrin (ISO):			
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
			Test Type: DNA Test system: Es Result: negative	cherichia coli
				omosomal aberration ninese hamster ovary cells
			Test system: Ch	ro mammalian cell gene mutation test ninese hamster lung cells _OAEL: 20 mg/kg
Geno	otoxicity in vivo	:	Test Type: Micr Species: Mouse Application Rou Result: negative	te: Oral
			Test Type: dom Species: Mouse Application Rou Result: negative	te: Oral
			Test Type: siste	r chromatid exchange assay



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			Spacias: Mausa	
			Species: Mouse Cell type: Bone	
			Application Rou	
			Result: negative	
	nogenicity lassified based on avai	labla	information	
_	ponents:	lable	mornation.	
2-Met	thoxy-1-methylethyl a	iceta	e:	
Speci	es	:	Rat	
Applio	cation Route	:	inhalation (vapo	pur)
	sure time	:	2 Years	
Metho		:	OECD Test Gui	deline 453
Resul	-	:	negative	
Rema	aiks	÷	Based on data f	rom similar materials
delta	methrin (ISO):			
Speci		:	Mouse, male an	nd female
	cation Route	:	oral (feed)	
•	sure time	:	104 weeks	
NOAE		:	8 mg/kg body w	
LOAE Resul		•	4 mg/kg body w positive	eight
	et Organs	:	Lymph nodes	
Speci		:	Rat, male and fe	emale
	cation Route	:	oral (feed)	
	sure time	:	2 Years	
Resul	It	÷	negative	
Speci		:	Dog, male and f	female
	cation Route sure time		oral (feed) 2 Years	
NOAE		:	1 mg/kg body w	reight
Resul		:	negative	oight
Repr	oductive toxicity			
•	•	ility. S	suspected of dam	aging the unborn child.
<u>Com</u>	oonents:			
Hydro	ocarbons, C9, aromat	ics:		
Effect	ts on fertility	:		e-generation reproduction toxicity st
			Species: Rat	· · · · · · · · · · · ·
				te: inhalation (vapour)
			Result: negative)
Effort	te on footal davalan		Toot Tupo: Emb	rue feetal development
ment	ts on foetal develop-	•	Species: Mouse	oryo-foetal development
ment			Openies. Mouse	•



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		Application Result: neg	Route: inhalation (vapour) ative
2-Me	thoxy-1-methylethyl	acetate:	
Effec	ts on fertility	Species: Ra Application Method: OE Result: neg	Route: inhalation (vapour) CD Test Guideline 416
Effec ment	ts on foetal develop-	Species: Ra	Route: inhalation (vapour)
2-Me	thyl-1-propanol:		
	ts on fertility	Species: Ra Application	Route: inhalation (vapour) PTS 870.3800
Effec ment	ts on foetal develop-	Species: Ra Application	Route: inhalation (vapour) CD Test Guideline 414
delta	methrin (ISO):		
	ts on fertility	Species: Ra Application Early Embry weight Symptoms:	Three-generation reproduction toxicity study at Route: oral (feed) yonic Development: NOAEL: 50 mg/kg body No effects on fertility, Embryo-foetal toxicity ignificant toxicity observed in testing
		Species: Ra Application Early Embry weight	
			at, male



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			Target Organs:	Testes		
Effects on foetal develop- ment		:	 Test Type: Development Species: Mouse Application Route: oral (gavage) Developmental Toxicity: LOAEL: 1 mg/kg body weigh Result: Skeletal malformations 			
				rnal toxicity observed.		
			Developmental			
Repro sessr	oductive toxicity - As- nent	:	Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.			
May o	- single exposure cause respiratory irritat cause drowsiness or d		SS.			
	ponents:					
Hydro	ocarbons, C9, aroma	tics:				
Asses	ssment	:	May cause drov	wsiness or dizziness.		
Asses	ssment	:	May cause resp	piratory irritation.		
2-Met	thoxy-1-methylethyl a	acetat	e:			
	ssment	:		wsiness or dizziness.		
A336.						
	thyl-1-propanol:					
2-Met	t hyl-1-propanol: ssment	:		biratory irritation. wsiness or dizziness.		
2-Me t Asses		:				

May cause damage to organs (Central nervous system, Immune system) through prolonged or repeated exposure if swallowed.

May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.



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Com	ponents:					
delta	methrin (ISO):					
Targe	sure routes et Organs ssment		: Central nervous system, Immune system: Causes damage to organs through prolonged or repeated			
Targe	sure routes et Organs ssment	: Central nervo	inhalation (dust/mist/fume) Central nervous system Causes damage to organs through prolonged or repeated exposure.			
Repe	eated dose toxicity					
Com	ponents:					
Hydr	ocarbons, C9, aroma	tics:				
NOA Appli Expo	Species : NOAEL : Application Route : Exposure time : Remarks :		pour) a from similar materials			
2-Me	thoxy-1-methylethyl	acetate:				
Spec NOA Appli Expo	2-Methoxy-1-methylethyl aceta Species : NOAEL : Application Route : Exposure time : Method :		Rat >= 1,000 mg/kg Ingestion 41 - 45 Days OECD Test Guideline 422			
	EL cation Route sure time od	: Rat : > 1 mg/l : inhalation (va : 2 yr : OECD Test G : Based on dat				
	EL cation Route sure time	: Rabbit : > 200 mg/kg : Skin contact : 90 Days : Based on data from similar materials				
2-Me	thyl-1-propanol:					
Spec NOA Appli	ies EL cation Route sure time	: Rat : > 1,450 mg/k : Ingestion : 90 Days : OECD Test G	-			



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		: Rat : >= 7.5 mg/l : inhalation (vap : 17 Weeks	pour)
Spec NOA LOAI Appli Expo Targe	EL	: Rat, male and : 1 mg/kg : 2.5 mg/kg : Oral : 13 Weeks : Nervous syste : hyperexcitabili	m
Expo	ties EL cation Route sure time ptoms	: Rat : 3 mg/m3 : inhalation (dus : 2 wk / 5 d/wk / : Local irritation	
Expo Targe	EL	: Dog : 0.1 mg/kg : 1 mg/kg : Oral : 13 Weeks : Nervous syste : Dilatation of th tion	m e pupil, Vomiting, Tremors, Diarrhoea, Saliva-
Expo	EL	: Rat : 14 mg/kg : 54 mg/kg : Oral : 91 d : Nervous syste	m
Expo Targe		: Mouse : 6 mg/kg : Oral : 12 Weeks : Immune syster : immune syster	

Aspiration toxicity

May be fatal if swallowed and enters airways.

Product:

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.



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Components:

Hydrocarbons, C9, aromatics:

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.

2-Methyl-1-propanol:

The substance or mixture causes concern owing to the assumption that it causes a human aspiration toxicity hazard.

Experience with human exposure

Components:

deltamethrin (ISO):		
Inhalation		et irritation, Dizziness, Sweating, ing, anorexia, Fatigue, tingling, muscle twitching
Skin contact	Symptoms: Skin irritation,	Erythema, pruritis, Headache, Nau- ingling, Sweating, muscle twitching,
Ingestion	Symptoms: muscle pain, S	

Section 12: Ecological information

Ecotoxicity

Components:

Hydrocarbons, C9, aromatics:

LL50 (Oncorhynchus mykiss (rainbow trout)): 9.2 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203
EL50 (Daphnia magna (Water flea)): 3.2 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202
EL50 (Pseudokirchneriella subcapitata (green algae)): 7.9 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 NOELR (Pseudokirchneriella subcapitata (green algae)): 0.22 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201





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Toxic	ity to microorganisms	:	EC50: > 99 mg/l Exposure time: 10) min
2-Met	hoxy-1-methylethyl ac	eta	e:	
	ity to fish			
	ity to daphnia and other ic invertebrates	:	Exposure time: 48	nagna (Water flea)): > 500 mg/l 3 h 67/548/EEC, Annex V, C.2.
Toxic plants	ity to algae/aquatic	:	ErC50 (Raphidoc 1,000 mg/l Exposure time: 96 Method: OECD Te	
			NOEC (Raphidoc 1,000 mg/l Exposure time: 96 Method: OECD Te	
	ity to daphnia and other ic invertebrates (Chron- icity)	:	NOEC (Daphnia r Exposure time: 2' Method: OECD T	
Toxic	ity to microorganisms	:	EC10 (activated s Exposure time: 30	sludge): > 1,000 mg/l) min
Benz	enesulfonic acid, C10-	13-a	ılkyl derivs., calci	um salts:
	ity to fish	:	LC50 : > 1 - < 10 Exposure time: 96 Method: OECD T	mg/l ፩ h
	ity to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD T	
Toxic plants	ity to algae/aquatic	:	100 mg/l Exposure time: 96	rchneriella subcapitata (green algae)): > 10 - S h on data from similar materials
			1 mg/l Exposure time: 96	rchneriella subcapitata (green algae)): > 0.1 5 h on data from similar materials



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Toxic icity)	ity to fish (Chronic tox-	:	Exposure time: 72	nchus mykiss (rainbow trout)): > 0.1 - 1 mg/l 2 d on data from similar materials
aquat	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		Exposure time: 2	magna (Water flea)): > 1 mg/l 1 d on data from similar materials
2-Met	thyl-1-propanol:			
	ity to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 1,430 mg/l 6 h
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia p Exposure time: 44	ulex (Water flea)): 1,100 mg/l 8 h
Toxic plants	ity to algae/aquatic S	:	mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 1,799 2 h est Guideline 201
			mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 117 2 h est Guideline 201
	ity to daphnia and other tic invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 20 mg/l 1 d
	ity to microorganisms	:	EC50: > 1,000 m Exposure time: 10	
delta	methrin (ISO):			
	ity to fish	:	LC50 (Cyprinodo mg/l Exposure time: 90	n variegatus (sheepshead minnow)): 0.00048 6 h
			LC50 (Oncorhynd Exposure time: 90	chus mykiss (rainbow trout)): 0.00039 mg/l 6 h
	ity to daphnia and other tic invertebrates	:	EC50 (Mysidopsi Exposure time: 4	s bahia (opossum shrimp)): 0.0037 μg/l 8 h
			EC50 (Daphnia m Exposure time: 44	nagna (Water flea)): 0.0035 mg/l 8 h
			LC50 (Gammarus Exposure time: 90	s fasciatus (freshwater shrimp)): 0.0003 μg/l δ h
Toxic plants	ity to algae/aquatic S	:	EC50 (Pseudokin mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 9.1 2 h



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M-F icity To> icity	Factor (Acute aquatic tox- /) kicity to fish (Chronic tox- /)	Method: OECD Remarks: No to : 1,000,000 : NOEC (Pimeph mg/l Exposure time: NOEC (Pimeph mg/l Exposure time:	Test Guideline 201 ixicity at the limit of solubility ales promelas (fathead minnow)): 0.000022 36 d ales promelas (fathead minnow)): 0.000017 260 d	
aqu ic to M-F	uatic invertebrates (Chron- oxicity) Factor (Chronic aquatic	 NOEC (Daphni Exposure time: 1,000,000 	a magna (Water flea)): 0.0041 μg/l 21 d	
	icity) rsistence and degradabili	itv		
	mponents:	l y		
	drocarbons, C9, aromatic			
-	degradability	: Result: Readily Biodegradation Exposure time:		
2-N	lethoxy-1-methylethyl ac	etate:		
	degradability	: Result: Readily Biodegradation Exposure time:		
Bei	nzenesulfonic acid, C10-	13-alkyl derivs., cal	cium salts:	
Bio	degradability	Biodegradation Exposure time:		
	lethyl-1-propanol: degradability	: Result: Readily Biodegradation Exposure time: Method: OECD	: 74 %	
	tamethrin (ISO): bility in water	: Hydrolysis: 0 %	(30 d)	



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Bioa	ccumulative potential			
	ponents:			
Hvdr	ocarbons, C9, aromati	cs:		
Partit	tion coefficient: n- nol/water	:	log Pow: 3.7 - 4.5	
2-Me	thoxy-1-methylethyl a	ceta	te:	
	tion coefficient: n- nol/water	:	log Pow: 1.2	
Benz	enesulfonic acid, C10	-13-a	alkyl derivs., calci	um salts:
	tion coefficient: n- nol/water	:	log Pow: 2.89	
2-Me	thyl-1-propanol:			
	tion coefficient: n- nol/water	:		est Guideline 117
delta	methrin (ISO):			
	ccumulation	:		s macrochirus (Bluegill sunfish) factor (BCF): 1,800
	tion coefficient: n- nol/water	:	log Pow: 4.6	
Mobi	ility in soil			
<u>Com</u>	ponents:			
delta	methrin (ISO):			
	bution among environ- al compartments	:	log Koc: 7.2	
••	r adverse effects ata available			

Section 13: Disposal considerations

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. 	



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Section 14: Transport information

International Regulations

UNRTDG		
UN number		UN 1993
Proper shipping name	:	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9, aromatics, 2-Methoxy-1-methylethyl ace- tate)
Class	:	3
Packing group	:	III
Labels	:	3
Environmentally hazardous	:	no
IATA-DGR		
UN/ID No.	:	UN 1993
Proper shipping name	:	Flammable liquid, n.o.s.
		(Hydrocarbons, C9, aromatics, 2-Methoxy-1-methylethyl ace-
		tate)
Class	:	3
Packing group	:	
Labels		Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passen-	:	355
ger aircraft)		
IMDG-Code		
UN number	:	UN 1993
Proper shipping name	:	FLAMMABLE LIQUID, N.O.S.
		(Hydrocarbons, C9, aromatics, 2-Methoxy-1-methylethyl ace-
		tate, deltamethrin (ISO))
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, <u>S-E</u>
Marine pollutant	:	yes

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

Not applicable for product as supplied.

National Regulations

NZS 5433 UN number Proper shipping name	:	UN 1993 FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9, aromatics, 2-Methoxy-1-methylethyl ace- tate)
Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	3Y
Marine pollutant	:	no



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Special precautions for user

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

Section 15: Regulatory information

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

HSNO Approval Number

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)

Chemical name	Environmental compartment	Reference concentration
deltamethrin	Water	0.0004 µg/l

HSW Controls

Certified handler certificate not required.

Tracking hazardous substance not required.

Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

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	:	06.07.2024
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 Agen- cy, http://echa.europa.eu/

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

Date format	:	dd.mm.yyyy
Full text of other abbreviations		
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospher- ic Contaminants



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ACGIH / TWA	:	8-hour, time-weighted average
NZ OEL / WES-TWA	:	Workplace Exposure Standard - Time Weighted average
NZ OEL / WES-STEL	:	Workplace Exposure Standard - 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 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.

NZ / EN