

Vers 6.1		Revision Date: 13.09.2024		S Number: 6120-00017		sue: 06.04.2024 sue: 29.03.2018	
Sect	tion 1: lo	lentification					
	Product	name	:	Deltamethrin (2.5	5%) Formulation	I.	
	Manufa	cturer or supplier's d	etai	ls			
	Compar	у	:	MSD			
	Address	i	:	33 Whakatiki Stre Upper Hutt - New		g 908	
	Telephone		:	0800 800 543			
	Emergency telephone number		:	0800 764 766 (08 CHEMCALL)	300 POISON)	0800 243 622 (0800	
	E-mail address		:	EHSDATASTEWARD@msd.com			
	Recom	mended use of the ch	nem	ical and restriction	ons on use		
		nended use ons on use	:	Veterinary produce Not applicable	ct		
Sect	tion 2: H	azard identification					
	GHS Cla	assification					
	Flamma	ble liquids	:	Category 3			
	Skin cor	rosion/irritation	:	Category 2			
	Serious tation	eye damage/eye irri-	:	Category 1			
	Skin ser	nsitisation	:	Category 1			
	Germ ce	ell mutagenicity	:	Category 1			
	Carcino	genicity	:	Category 1			
	Reprodu	uctive toxicity	:	Category 2			

Specific target organ toxicity - : Category 3

single exposure



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tion)			
Aspi	ration hazard	: Category 1	
	ardous to the aquatic ronment - acute hazard	: Category 1	
	ardous to the aquatic conment - chronic hazard	: Category 1	
	ard pictograms		72
Sign	al word	: Danger	
Haza	ard statements	 H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H336 May cause drowsiness or dizziness. H340 May cause genetic defects. H350 May cause cancer. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs (Central nervous syst Immune system) through prolonged or repeated exposure swallowed. H373 May cause damage to organs (Central nervous syst through prolonged or repeated exposure if inhaled. H410 Very toxic to aquatic life with long lasting effects. 	if
Prec	autionary statements	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been and understood. P210 Keep away from heat, hot surfaces, sparks, open flat and other ignition sources. No smoking. P233 Keep container tightly closed. P241 Use explosion-proof electrical/ ventilating/ lighting edment. P242 Use non-sparking tools. P260 Do not breathe mist or vapours. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protective 	mes quip- but 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)
Solvent naphtha (petroleum), light aromatic	64742-95-6	>= 50 -< 70
Benzenesulfonic acid, C10-13-alkyl derivs.,	Not Assigned	>= 3 -< 10
calcium salts		
4-Nonylphenol, branched, ethoxylated	127087-87-0	>= 2.5 -< 10
deltamethrin (ISO)	52918-63-5	>= 2.5 -< 10
2,6-Di-tert-butyl-p-cresol	128-37-0	>= 1 -< 2.5

Section 4: First-aid measures

General advice

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



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			oms persist or in all cases of doubt seek medica			
lf inha	led	,	nove to fresh air.			
In cas	e of skin contact	 Get medical attention. 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. 				
In cas	e of eye contact	: In case of cor for at least 15 If easy to do,	ntact, immediately flush eyes with plenty of wate			
lf swa	llowed	: If swallowed, If vomiting oc Call a physici Rinse mouth	DO NOT induce vomiting. ccurs have person lean forward. ian or poison control centre immediately. thoroughly with water. hything by mouth to an unconscious person.			
	mportant symptoms ffects, both acute and ed	: May be fatal i Causes skin i May cause ar Causes serio May cause dr May cause da Suspected of May cause da exposure if sy May cause da exposure if in This product	if swallowed and enters airways. irritation. n allergic skin reaction. us eye damage. rowsiness or dizziness. enetic defects. ancer. damaging fertility or the unborn child. amage to organs through prolonged or repeated wallowed. amage to organs through prolonged or repeated			
Protec	ction of first-aiders	: First Aid resp and use the r	ecommended personal protective equipment ential for exposure exists (see section 8).			
	to physician	: Treat sympto	matically and supportively.			
ection 5:	Fire-fighting measure	S				
Suitab	ble extinguishing media	: Water spray Alcohol-resist Carbon dioxic Dry chemical	de (CO2)			
Unsui media	table extinguishing	: High volume	water jet			
Specil fightin	fic hazards during fire- g	fire. Flash back po	solid water stream as it may scatter and spread ossible over considerable distance. r form explosive mixtures with air.			



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Haza ucts	rdous combustion prod-	:	Exposure to com Carbon oxides Nitrogen oxides (Bromine compou	
			Sulphur oxides Metal oxides	
Spec ods	ific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do
	Special protective equipment for firefighters			e, wear self-contained breathing apparatus. tective equipment.
Hazc	Hazchem Code		3Y	
Section 6	: Accidental release me	eas	ures	
tive e	onal precautions, protec- equipment and emer- y procedures	:	Follow safe hand	es of ignition. tective equipment. ling advice (see section 7) and personal pro- t recommendations (see section 8).
Envir	onmental precautions	:	Prevent spreadin barriers). Retain and dispo	eakage or spillage if safe to do so. g over a wide area (e.g. by containment or o se of contaminated wash water. should be advised if significant spillages
	ods and materials for inment and cleaning up	:	Soak up with iner Suppress (knock spray jet. For large spills, p ment to keep ma be pumped, store Clean up remaini bent. Local or national posal of this mate employed in the o mine which regul Sections 13 and	Is should be used. t absorbent material. down) gases/vapours/mists with a water rovide dyking or other appropriate contain- terial from spreading. If dyked material can e recovered material in appropriate container ng 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- ations are applicable. 15 of this SDS provide information regarding ational requirements.



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Technical measures	:	See Engineering measures under EXPOSURE
Local/Total ventilation	:	CONTROLS/PERSONAL PROTECTION section. If sufficient ventilation is unavailable, use with local exhaust
		ventilation.
		Use explosion-proof electrical, ventilating and lighting equ 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 sa
		practice, based on the results of the workplace exposure a sessment
		Non-sparking tools should be used.
		Keep container tightly closed.
		Keep away from heat, hot surfaces, sparks, open flames a 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
		environment.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide
		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 t
		workplace.
		Wash contaminated clothing before re-use. The effective operation of a facility should include review of
		engineering controls, proper personal protective equipmer
		appropriate degowning and decontamination procedures,
		industrial hygiene monitoring, medical surveillance and the
Openditions for onto store as		use of administrative controls.
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
Materials to avoid	:	Keep away from heat and sources of ignition. 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



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Section 8: Exposure controls/personal protection

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
Solvent naphtha (petroleum), light aromatic	64742-95-6	WES-TWA	300 ppm 890 mg/m3	NZ OEL	
		WES-STEL	500 ppm 1,480 mg/m3	NZ OEL	
		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH	
deltamethrin (ISO)	52918-63-5	TWA	15 µg/m3 (OEB 3)	Internal	
	Further information: DSEN, Skin				
		Wipe limit	100 µg/100 cm ²	Internal	
2,6-Di-tert-butyl-p-cresol	128-37-0	WES-TWA	10 mg/m3	NZ OEL	
	Further information: Skin sensitiser				
		TWA (Inhal- able fraction and vapor)	2 mg/m3	ACGIH	

Components with workplace control parameters

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 compounds 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 equipme	ent	
Respiratory protection Filter type	:	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
Hand protection	•	
Material	:	Chemical-resistant gloves
Remarks	:	Consider double gloving. Take note that the product is flam- mable, which may impact the selection of hand protection.
Eye protection	:	Wear safety glasses with side shields or goggles.



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Skin a	nd body protection	 mists or aerosols Wear a faceshiel potential for direct aerosols. Work uniform or l Additional body g task being perfor posable suits) to 	parments should be used based upon the med (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. degowning techniques to remove potentially

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	:	< -5 °C
Initial boiling point and boiling range	:	No data available
Flash point	:	40 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0.909 - 0.927 g/cm ³ (20 °C)
Solubility(ies)		



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	Water solubility	:	partly miscible	
	artition coefficient: n- ctanol/water	:	Not applicable	
	uto-ignition temperature	:	No data available	9
D	ecomposition temperature	:	No data available	9
Vi	scosity Viscosity, kinematic	:	No data available	9
Ex	xplosive properties	:	Not explosive	
O	xidizing properties	:	The substance o	r mixture is not classified as oxidizing.
М	olecular weight	:	No data available	9
	article characteristics article size	:	Not applicable	

Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions	: :	Not classified as a reactivity hazard. Stable under normal conditions. Flammable liquid and vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products		Heat, flames and sparks. Oxidizing agents No hazardous decomposition products are known.

Section 11: Toxicological information

Exposure routes	: Inhalation Skin contact
	Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 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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Components:

Solvent naphtha (petroleum), light aromatic:				
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg		
Acute inhalation toxicity	:	LC50 (Rat): > 5.61 mg/l Exposure time: 4 h Test atmosphere: vapour		
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg		
Benzenesulfonic acid, C10-	13-a	alkyl derivs., calcium salts:		
Acute oral toxicity	:	LD50 (Rat): 4,445 mg/kg		
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on data from similar materials		
4-Nonylphenol, branched, e	tho	xylated:		
Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg		
deltamethrin (ISO):				
Acute oral toxicity	:	LD50 (Rat): 66.7 mg/kg		
		LD50 (Rat): 9 - 139 mg/kg		
		LD50 (Mouse): 19 - 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): > 800 mg/kg		
Acute toxicity (other routes of administration)	:	LD50 (Rat): 2.5 mg/kg Application Route: Intravenous		
		LD50 (Mouse): 10 mg/kg Application Route: Intraperitoneal		
2,6-Di-tert-butyl-p-cresol:				
Acute oral toxicity	:	LD50 (Rat): > 6,000 mg/kg Method: OECD Test Guideline 401		
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402		



rsion	Revision Date: 13.09.2024	SDS Number: 2656120-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018
		Assessment: T toxicity	he substance or mixture has no acute dermal
Skin	corrosion/irritation		
	es skin irritation.		
Com	oonents:		
	ent naphtha (petrole	um) light aromatic:	
Speci		: Rabbit	
Metho		: OECD Test Gu	iideline 404
Resul	lt	: Skin irritation	
Benzo	enesulfonic acid, C1	10-13-alkyl derivs., ca	Icium salts:
Speci	es	: Rabbit	
Metho		: OECD Test Gu	uideline 404
Resul	lt	: Skin irritation	
4-Nor	nylphenol, branched	l, ethoxylated:	
Speci		: Rabbit	
Metho		: OECD Test Gu	
Resul Rema		: No skin irritatic : Based on data	n from similar materials
delta	methrin (ISO):		
Speci		: Rabbit	
Resul		: No skin irritatio	n
2.6-D	i-tert-butyl-p-cresol	:	
Speci		: Rabbit	
Metho		: OECD Test Gu	
Resul		: No skin irritatio	
Rema	arks	: Based on data	from similar materials
Serio	us eye damage/eye	irritation	
Cause	es serious eye damaç	ge.	
Comp	oonents:		
		um), light aromatic:	
Speci Resul		: Rabbit : No eye irritatio	n
Metho		: OECD Test Gu	
Renz	enesulfonic acid. C1	10-13-alkyl derivs., ca	lcium salts:
Speci		: Rabbit	ioram suits.
Resul			ects on the eye
Metho		: OECD Test Gu	





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4-Nonylphenol, branched, ethoxylated:

	Rabbit
Result :	No eye irritation
Method :	OECD Test Guideline 405
Remarks :	Based on data from similar materials

deltamethrin (ISO):

Species	:	Rabbit
Result	:	Moderate eye irritation

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

Species :	Rabbit
Result :	No eye irritation
Method :	OECD Test Guideline 405
Remarks :	Based on data from similar materials

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

Solvent naphtha (petroleum), light aromatic:

Test Type	:	Buehler Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Result	:	negative

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts:

Exposure routes :	:	Magnusson-Kligman-Test Skin contact Guinea pig
		OECD Test Guideline 406 Based on data from similar materials

4-Nonylphenol, branched, ethoxylated:

Test Type :	Maximisation Test
Exposure routes :	Skin contact
Species :	Guinea pig
Result :	negative
Remarks :	Based on data from similar materials



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Test	sure routes ies	: Maximisation T : Dermal : Guinea pig : negative	est
Test Expo Spec Resu	sure routes ies	: Human repeat i : Dermal : Humans : positive	nsult patch test (HRIPT)
Test	sure routes ies	: Human repeat i : Skin contact : Humans : negative	nsult patch test (HRIPT)
Chro	nic toxicity		
	cell mutagenicity cause genetic defects.		
iviay (ause genetic delects.		
Com	ponents:		
	<u>ponents:</u> ent naphtha (petroleu	um), light aromatic:	
Solve			terial reverse mutation assay (AMES)
Solve	ent naphtha (petroleu	: Test Type: Bac Result: negative	e tro mammalian cell gene mutation test
Solve Geno	ent naphtha (petroleu	 Test Type: Bac Result: negative Test Type: In vi Result: positive Test Type: Siste gonia Species: Mouse 	e tro mammalian cell gene mutation test er chromatid exchange analysis in spermato e ite: Intraperitoneal injection
Solve Geno Geno	ent naphtha (petroleu toxicity in vitro	 Test Type: Bac Result: negative Test Type: In vi Result: positive Test Type: Siste gonia Species: Mouse Application Rou Result: positive 	e tro mammalian cell gene mutation test er chromatid exchange analysis in spermato e ite: Intraperitoneal injection s) from in vivo heritable germ cell mutagenic
Solve Geno Geno Germ Asses	ent naphtha (petroleu toxicity in vitro toxicity in vivo	 Test Type: Bac Result: negative Test Type: In vi Result: positive Test Type: Siste gonia Species: Mouse Application Rou Result: positive Positive result(s 	e tro mammalian cell gene mutation test er chromatid exchange analysis in spermato e ite: Intraperitoneal injection s) from in vivo heritable germ cell mutagenic als
Solve Genc Genc Genc Germ Asses Benz	ent naphtha (petroleu toxicity in vitro toxicity in vivo	 Test Type: Bac Result: negative Test Type: In vi Result: positive Test Type: Siste gonia Species: Mouse Application Rou Result: positive Positive result(s tests in mamma 0-13-alkyl derivs., cal Test Type: Bac Method: Directi Result: negative 	tro mammalian cell gene mutation test er chromatid exchange analysis in spermato e ite: Intraperitoneal injection s) from in vivo heritable germ cell mutagenic als cium salts: terial reverse mutation assay (AMES) ve 67/548/EEC, Annex, B.13/14
Solva Genco Genco Germ Asses Benz Genco	ent naphtha (petroleu toxicity in vitro toxicity in vivo cell mutagenicity - ssment enesulfonic acid, C1	 Test Type: Bac Result: negative Test Type: In vi Result: positive Test Type: Siste gonia Species: Mouse Application Rou Result: positive Positive result(s tests in mamma 0-13-alkyl derivs., cal Test Type: Bac Method: Directi Result: negative Remarks: Base 	tro mammalian cell gene mutation test er chromatid exchange analysis in spermato e ite: Intraperitoneal injection s) from in vivo heritable germ cell mutagenic als cium salts: terial reverse mutation assay (AMES) ve 67/548/EEC, Annex, B.13/14



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		Remarks: Based	d on data from similar materials
		Method: OECD Result: negative	mosome aberration test in vitro Test Guideline 473 d on data from similar materials
		Method: OECD Result: negative	ro mammalian cell gene mutation test Test Guideline 476 d on data from similar materials
delta	methrin (ISO):		
	ptoxicity in vitro	: Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
		Test Type: DNA Test system: Es Result: negative	cherichia coli
			mosomal aberration inese hamster ovary cells
		Test system: Ch	ro mammalian cell gene mutation test inese hamster lung cells .OAEL: 20 mg/kg
Genc	otoxicity in vivo	: Test Type: Micro Species: Mouse Application Rou Result: negative	te: Oral
		Test Type: domi Species: Mouse Application Rou Result: negative	te: Oral
		Test Type: siste Species: Mouse Cell type: Bone Application Rou Result: negative	marrow te: Oral
2,6-D)i-tert-butyl-p-cresol:		
	otoxicity in vitro	: Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
		Test Type: In vit Result: negative	ro mammalian cell gene mutation test



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			Type: Chro ult: negative	mosome aberration test in vitro
Gen	otoxicity in vivo	cyto Spe App		
	cinogenicity			
	cause cancer.			
<u>Con</u>	<u>iponents:</u>			
Solv	vent naphtha (petroleu	m), light a	romatic:	
Spe		: Mou	se contact	
	lication Route	: 2 Ye		
Res		: posi		
Caro men	cinogenicity - Assess- t	: Suff	icient eviden	ce of carcinogenicity in animal experiments
delt	amethrin (ISO):			
Spe	cies	: Mou	se, male an	d female
	lication Route		(feed)	
Exp NOA	osure time		weeks x/ka body w	alabt
LOA			g/kg body we g/kg body we	
Res		: posi		
Targ	jet Organs	: Lym	ph nodes	
Spe	cies	: Rat.	male and fe	male
	lication Route	,	(feed)	
	osure time	: 2 Ye		
Res	ult	: nega	ative	
Spe	cies	: Dog	, male and fe	emale
	lication Route		(feed)	
Exp NOA	osure time	: 2 Ye		hight (
Res		: nega	g/kg body we ative	
			-	
2,6-	Di-tert-butyl-p-cresol:			
Spe		: Rat		
	lication Route		stion	
Exp Res	osure time		lonths	
Res	uit	: nega		





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Suspe	oductive toxicity ected of damaging fert ponents:	ility or	the unborn child.	
	ent naphtha (petroleu	um) li	abt aromatic:	
	ts on fertility	:	Test Type: Repro test Species: Rat	eduction/Developmental toxicity screening
Effect ment	ts on foetal develop-	:	Species: Rat	yo-foetal development e: inhalation (vapour)
4-Noi	nylphenol, branched,	etho	xylated:	
Repro sessn	oductive toxicity - As- nent	:		of adverse effects on sexual function and a development, based on animal experiment
delta	methrin (ISO):			
Effect	ts on fertility	:	Species: Rat Application Route Early Embryonic weight Symptoms: No e	e-generation reproduction toxicity study e: oral (feed) Development: NOAEL: 50 mg/kg body ffects on fertility, Embryo-foetal toxicity cant toxicity observed in testing
			Species: Rat Application Route Early Embryonic weight	generation reproduction toxicity study e: Oral Development: LOAEL: 84 - 149 mg/kg body ffects on fertility, Embryo-foetal toxicity
			Test Type: Fertili Species: Rat, ma Application Route Fertility: LOAEL: Symptoms: Effect Target Organs: T	le e: Oral 1 mg/kg body weight ts on fertility
Effect ment	ts on foetal develop-	:	Result: Skeletal r	e: oral (gavage) oxicity: LOAEL: 1 mg/kg body weight



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			Test Type: Deve	elopment
			Species: Rat, fe	
				Toxicity: NOAEL: 10 mg/kg body weight effects on foetal development
			Test Type: Deve	
			Species: Rabbit	t, female ite: oral (gavage)
				Toxicity: NOAEL: 16 mg/kg body weight
				effects on foetal development
Repro sessn	oductive toxicity - As- nent	:		of adverse effects on sexual function and on development, based on animal experimen
26.0	i tort butyl n crosol:			
	i-tert-butyl-p-cresol: ts on fertility	:	Test Type: Two	-generation reproduction toxicity study
2.1000		-	Species: Rat	generalen represidenten tentet, ettag
			Application Rou	
			Result: negative)
Effect	ts on foetal develop-	:		oryo-foetal development
ment			Species: Rat Application Rou	te: Indestion
			Result: negative	
STOT	- single exposure			
	cause drowsiness or di	zzine	SS.	
<u>Com</u>	ponents:			
Solve	ent naphtha (petroleu	m), li	-	
Asses	ssment	:	May cause drov	vsiness or dizziness.
delta	methrin (ISO):			
Asses	ssment	:	May cause resp	viratory irritation.
STOT	- repeated exposure			
			entral nervous sy	stem, Immune system) through prolonged o
repea	ited exposure if swallo	wed.	-	
May o if inha		ns (Co	entral nervous sy	stem) through prolonged or repeated exposition
Com	oonents:			
delta	methrin (ISO):			
	sure routes	:	Ingestion	
Targe	et Organs	•	Central nervous	system Immune system

	•	ngeeden
Target Organs	:	Central nervous system, Immune system
Assessment	:	Causes damage to organs through prolonged or repeated
		exposure.





/ersion 5.1	Revision Date: 13.09.2024	SDS Number: 2656120-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018
Expos	ure routes	: inhalation (du	st/mist/fume)
	t Organs	: Central nervo	
Asses	sment	: Causes dama exposure.	age to organs through prolonged or repeated
2,6-Di	-tert-butyl-p-cresol:		
Asses	sment		health effects observed in animals at concentrand/kg bw or less.
Repea	ated dose toxicity		
<u>Comp</u>	onents:		
	nt naphtha (petroleu		
Specie LOAE		: Rat : 500 mg/kg	
	- ation Route	: Ingestion	
Expos	ure time	: 28 Days	
4-Non	ylphenol, branched	, ethoxylated:	
Specie		: Rat	
LOAE	L ation Route	: 150 mg/kg : Ingestion	
	ure time	: 90 Days	
Metho		: OPPTS 870.3	3100
Rema	rks	: Based on dat	a from similar materials
deltan	nethrin (ISO):		
Specie		: Rat, male and	d female
NOAE LOAE		: 1 mg/kg : 2.5 mg/kg	
	L ation Route	: Oral	
Expos	ure time	: 13 Weeks	
	t Organs	: Nervous syste	
Sympt	oms	: hyperexcitabi	lity
Specie	es	: Rat	
LOAE	L	: 3 mg/m3	
	ation Route	: inhalation (du	
Expos Sympt	ure time	: 2 wk / 5 d/wk	/ 6 h/d h, respiratory tract irritation
Specie NOAE		: Dog : 0.1 ma/ka	
LOAE		: 0.1 mg/kg : 1 mg/kg	
	Lation Route	: Oral	
Expos	ure time	: 13 Weeks	
	t Organs	: Nervous syste	
Sympt	oms	: Dilatation of the tion	he pupil, Vomiting, Tremors, Diarrhoea, Saliva-
		18/2	27



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Spec		: Rat	
NOAI LOAE		: 14 mg/kg : 54 mg/kg	
-	cation Route	: Oral	
	sure time	: 91 d	
Targe	et Organs	: Nervous sys	stem
Spec	ies	: Mouse	
LOAE		: 6 mg/kg	
	cation Route	: Oral	
	sure time et Organs	: 12 Weeks : Immune sys	stem
	otoms	: immune sys	
2,6-D	i-tert-butyl-p-cresol:		
Spec	ies	: Rat	
NOA		: 25 mg/kg	
	cation Route	: Ingestion	
Expo	sure time	: 22 Months	
Aspi	ration toxicity		
May I	be fatal if swallowed a	nd 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.

Components:

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:

deitamethrin (150):	deltamethrin (IS	O) :
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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, Blurred vision, Fatigue, anorexia, Allergic reactions
Ingestion	:	Symptoms: muscle pain, Small pupils



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Section 12: Ecological information

Ecotoxicity							
Components:							
Solvent naphtha (petroleum), light aromatic:							
Toxicity to fish :	LC50 (Pimephales promelas (fathead minnow)): 8.2 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction						
Toxicity to daphnia and other : aquatic invertebrates	EL50 (Daphnia magna (Water flea)): 4.5 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202						
Toxicity to algae/aquatic : plants	EL50 (Pseudokirchneriella subcapitata (microalgae)): 3.1 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201						
	NOELR (Pseudokirchneriella subcapitata (microalgae)): 0.5 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201						
Toxicity to daphnia and other : aquatic invertebrates (Chron- ic toxicity)	NOELR (Daphnia magna (Water flea)): 2.6 mg/l Exposure time: 21 d Test substance: Water Accommodated Fraction Method: OECD Test Guideline 211						
Benzenesulfonic acid, C10-13-	alkyl derivs., calcium salts:						
Toxicity to fish :	LC50 : > 1 - < 10 mg/l Exposure time: 96 h Method: OECD Test Guideline 203						
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials						
Toxicity to algae/aquatic : plants	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 10 - 100 mg/l Exposure time: 96 h Remarks: Based on data from similar materials						
	NOEC (Pseudokirchneriella subcapitata (green algae)): > 0.1 - 1 mg/l Exposure time: 96 h Remarks: Based on data from similar materials						



ersion 1	Revision Date: 13.09.2024		S Number: 56120-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018
Toxicity icity)	to fish (Chronic tox-	:	Exposure time:	ynchus mykiss (rainbow trout)): > 0.1 - 1 mg/l 72 d d on data from similar materials
	to daphnia and other invertebrates (Chron- ty)	:	Exposure time:	a magna (Water flea)): > 1 mg/l 21 d d on data from similar materials
4-Nony	Iphenol, branched, et	tho	xylated:	
Toxicity	to fish	:	Exposure time:	ales promelas (fathead minnow)): > 0.1 - 1 mg/l 96 h d on data from similar materials
	to daphnia and other invertebrates	:	Exposure time:	ohnia dubia (water flea)): > 0.1 - 1 mg/l 48 h d on data from similar materials
Toxicity plants	to algae/aquatic	:	mg/l Exposure time: Method: OECD	strum capricornutum (green algae)): > 1 - 10 72 h Test Guideline 201 d on data from similar materials
			Exposure time: Method: OECD	trum capricornutum (green algae)): > 1 mg/l 72 h Test Guideline 201 d on data from similar materials
	or (Acute aquatic tox-	:	1	
icity) Toxicity icity)	to fish (Chronic tox-	:	Exposure time:	a latipes (Japanese medaka)): > 0.1 - 1 mg/l 100 d d on data from similar materials
	to daphnia and other invertebrates (Chron- ty)	:	mg/l Exposure time:	psis bahia (opossum shrimp)): > 0.001 - 0.01 28 d d on data from similar materials
M-Facto toxicity)	or (Chronic aquatic	:	10	
deltam	ethrin (ISO):			
Toxicity	to fish	:	LC50 (Cyprinod 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
Toxicity	to daphnia and other	:	EC50 (Mysidop	sis bahia (opossum shrimp)): 0.0037 µg/l

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i	aquatic	invertebrates		Exposure time: 48	3 h
				EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.0035 mg/l 3 h
				LC50 (Gammarus Exposure time: 96	s fasciatus (freshwater shrimp)): 0.0003 μg/l δ h
	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD To	
	M-Facto icity)	or (Acute aquatic tox-	:	1,000,000	
		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
		to daphnia and other invertebrates (Chron- tv)	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.0041 µg/l ⊢d
		or (Chronic aquatic	:	1,000,000	
	2,6-Di-t	ert-butyl-p-cresol:			
	Toxicity	r to fish	:	Exposure time: 96	(zebra fish)): > 0.57 mg/l 3 h 67/548/EEC, Annex V, C.1.
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	M-Facto icity)	or (Acute aquatic tox-	:	1	
		to fish (Chronic tox-	:	NOEC (Oryzias la Exposure time: 30	tipes (Japanese medaka)): 0.053 mg/l) d



1	Revision Date: 13.09.2024		DS Number: 56120-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018
			Method: OECD T	est Guideline 210
			Method. OECD 1	
	ity to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 0.316 mg/l 1 d
	ctor (Chronic aquatic	:	1	
Toxici	ity to microorganisms	:	Exposure time: 3	
Persi	stence and degradabil	ity		
<u>Comp</u>	oonents:			
Solve	ent naphtha (petroleum), li	ght aromatic:	
Biode	gradability	:	Result: Inherently Biodegradation: Exposure time: 2	94 %
Benzo	enesulfonic acid, C10- [,]	13-a	alkyl derivs., calci	um salts:
	gradability	:	Result: Readily b	iodegradable.
			Biodegradation: Exposure time: 2	
				est Guideline 301B
4-Nor	nylphenol, branched, e	tho	Method: OECD T	
	ylphenol, branched, e gradability	tho :	Method: OECD T xylated: Result: Not readil	est Guideline 301B
Biode	•••		Method: OECD T xylated: Result: Not readil	est Guideline 301B y biodegradable.
Biode deltar	gradability		Method: OECD T xylated: Result: Not readil	est Guideline 301B y biodegradable. on data from similar materials
Biode deltar Stabil	gradability methrin (ISO):	:	Method: OECD T xylated: Result: Not readil Remarks: Based	est Guideline 301B y biodegradable. on data from similar materials
Biode deltar Stabil 2,6-Di	gradability methrin (ISO): ity in water	:	Method: OECD T xylated: Result: Not readil Remarks: Based Hydrolysis: 0 %(3 Result: Not readil Biodegradation:	est Guideline 301B y biodegradable. on data from similar materials 0 d) y biodegradable. 4.5 %
Biode deltar Stabil 2,6-Di	gradability methrin (ISO): ity in water i-tert-butyl-p-cresol:	:	Method: OECD T xylated: Result: Not readil Remarks: Based Hydrolysis: 0 %(3 Result: Not readil Biodegradation: Exposure time: 2	est Guideline 301B y biodegradable. on data from similar materials 0 d) y biodegradable. 4.5 %
Biode deltai Stabil 2,6-Di Biode	gradability methrin (ISO): ity in water i-tert-butyl-p-cresol:	:	Method: OECD T xylated: Result: Not readil Remarks: Based Hydrolysis: 0 %(3 Result: Not readil Biodegradation: Exposure time: 2	est Guideline 301B y biodegradable. on data from similar materials 80 d) y biodegradable. 4.5 % 8 d
Biode deltar Stabil 2,6-Di Biode	gradability methrin (ISO): ity in water i-tert-butyl-p-cresol: gradability	:	Method: OECD T xylated: Result: Not readil Remarks: Based Hydrolysis: 0 %(3 Result: Not readil Biodegradation: Exposure time: 2	est Guideline 301B y biodegradable. on data from similar materials 80 d) y biodegradable. 4.5 % 8 d
Biode deltar Stabil 2,6-Di Biode Biode	gradability methrin (ISO): ity in water i-tert-butyl-p-cresol: gradability ccumulative potential	:	Method: OECD T xylated: Result: Not readil Remarks: Based Hydrolysis: 0 %(3 Result: Not readil Biodegradation: Exposure time: 2 Method: OECD T	est Guideline 301B y biodegradable. on data from similar materials 0 d) y biodegradable. 4.5 % 8 d est Guideline 301C
Biode deltar Stabil 2,6-Di Biode Biode Bioac Comp Benze Partiti	gradability methrin (ISO): ity in water i-tert-butyl-p-cresol: gradability ccumulative potential ponents:	:	Method: OECD T xylated: Result: Not readil Remarks: Based Hydrolysis: 0 %(3 Result: Not readil Biodegradation: Exposure time: 2 Method: OECD T	est Guideline 301B y biodegradable. on data from similar materials 0 d) y biodegradable. 4.5 % 8 d est Guideline 301C
Biode deltar Stabil 2,6-Di Biode Biode Biode Bioac Comp Partiti octant deltar	gradability methrin (ISO): ity in water i-tert-butyl-p-cresol: gradability ccumulative potential ponents: enesulfonic acid, C10- on coefficient: n-	: : 13-a	Method: OECD T xylated: Result: Not readil Remarks: Based Hydrolysis: 0 %(3 Result: Not readil Biodegradation: Exposure time: 2 Method: OECD T Alkyl derivs., calci log Pow: 2.89	est Guideline 301B y biodegradable. on data from similar materials 0 d) y biodegradable. 4.5 % 8 d est Guideline 301C



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		Bi	oconcentratio	on factor (BCF): 1,800				
	Partition coefficient: n- octanol/water		g Pow: 4.6					
2,6-D	9i-tert-butyl-p-cresol:							
Bioac	Bioaccumulation		: Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 330 - 1,800					
	Partition coefficient: n- octanol/water		log Pow: 5.1					
Mobi	lity in soil							
Com	ponents:							
delta	methrin (ISO):							
Distri		: lo	g Koc: 7.2					
Othe	r adverse effects							
No da	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.

Section 14: Transport information

International Regulations

UNRTDG UN number Proper shipping name Class Packing group Labels Environmentally hazardous		UN 3295 HYDROCARBONS, LIQUID, N.O.S. 3 III 3 no
IATA-DGR UN/ID No. Proper shipping name Class Packing group	:	UN 3295 Hydrocarbons, liquid, n.o.s. 3 III





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aircraft	g instruction (cargo t) g instruction (passen-	:	Flammable Liquid 366 355	ls
Class Packin Labels EmS C Marine	mber shipping name g group Code e pollutant	:	(deltamethrin (ISC 3 III 3 F-E, S-D yes	IS, LIQUID, N.O.S. D), 2,6-Di-tert-butyl-p-cresol)

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	: UN 3295
Proper shipping name	: HYDROCARBONS, LIQUID, N.O.S.
Class	: 3
Packing group	: 111
Labels	: 3
Hazchem Code	: 3Y
Marine pollutant	: no

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.





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Refe forma		fety at Work (Hazard	ous Substances) Regulations 2017, for further in-			
The components of this product are reported in the following inventories:						
AICS	5	: not determine	ed			
DSL		: not determine	ed			
IECS	SC	: not determine	: not determined			
Section 16: Other information						
Revis	sion Date	: 13.09.2024				
Furth	ner 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 NZ OEL	:	USA. ACGIH Threshold Limit Values (TLV) New Zealand. Workplace Exposure Standards for Atmospher- ic Contaminants				
ACGIH / TWA NZ OEL / WES-TWA NZ OEL / WES-STEL	:	8-hour, time-weighted average Workplace Exposure Standard - Time Weighted average 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 Substanc-

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Deltamethrin (2.5%) Formulation

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es; (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