

# **BIFLEX AQUAMAX**

Vers 1.2		Revision Date: 02.08.2021		S Number: 01562	Date of last issue: 31.07.2021 Date of first issue: 30.07.2021
SEC	TION 1.	PRODUCT AND COM	/IPA		ON
	Product	name	:	BIFLEX AQUAM	AX
	Other m	eans of identification	:	BIFENTHRIN 10	) G/L SC
		nended use of the ch	-		
	Recomm	nended use	:	Termiticide and in	nsecticide
	Restricti	ons on use	:	Use as recomme	nded by the label.
	Manufa	cturer or supplier's d	letai	ls	
	Compan	у	:	FMC Australasia	Pty Ltd
	Address		:	Building B, Level North Ryde NSW	2, 12 Julius Avenue, 2113
	Telepho	ne	:	+6161029887900	)
	Emerger	ncy telephone number	· :	For leak, fire, spil 1800 033 111 (l)	l or accident emergencies, call: com)
				Medical emergen 1 800 033 111 (T	cy: ransport and 24 h Medical information)

### SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Serious eye damage/eye irri- tation	:	Category 1
Skin sensitisation	:	Category 1
Specific target organ toxicity - repeated exposure	:	Category 2 (Nervous system)

### **GHS** label elements

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Hazar	d pictograms		
Signal	word	: Danger	
Hazard statements		H317 May cau H318 Causes H373 May cau	Harmful if swallowed or if inhaled. use an allergic skin reaction. serious eye damage. use damage to organs (Nervous system) through epeated exposure.
Preca	utionary statements	P264 Wash sł P270 Do not e P271 Use oniy P272 Contam the workplace	preathe dust/ fume/ gas/ mist/ vapours/ spray. kin thoroughly after handling. eat, drink or smoke when using this product. y outdoors or in a well-ventilated area. inated work clothing should not be allowed out of otective gloves/ eye protection/ face protection.
		CENTER or d P302 + P352 P304 + P340 and keep at re POISON CEN P305 + P351 water for seve and easy to de CENTER or d P314 Get mee P333 + P313 vice/ attention	+ P330 IF SWALLOWED: Call a POISON octor/ physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water + P312 IF INHALED: Remove victim to fresh air est in a position comfortable for breathing. Call a TER or doctor/ physician if you feel unwell. + P338 + P310 IF IN EYES: Rinse cautiously with ral minutes. Remove contact lenses, if present b. Continue rinsing. Immediately call a POISON octor/ physician. dical advice/ attention if you feel unwell. If skin irritation or rash occurs: Get medical ad-
		Disposal:	of contents/ container to an approved waste

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
bifenthrin (ISO)	82657-04-3	>= 1 -< 10
propane-1,2-diol	57-55-6	< 10



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ECTION	4. FIRST AID MEASU	RES		
Gene	ral advice			
If inhaled		advice.	, place in recovery position and seek medical ersist, call a physician.	
In cas	e of skin contact	If on skin, rinse	n persists, call a physician. e well with water. emove clothes.	
In cas	e of eye contact	sue damage a In the case of of water and s Continue rinsin Remove conta Protect unharr Keep eye wide	contact with eyes, rinse immediately with plent eek medical advice. ng eyes during transport to hospital. Ict lenses.	
lf swa	llowed	Never give any If symptoms p		
	important symptoms ffects, both acute and ed	May cause an Causes seriou	llowed or if inhaled. allergic skin reaction. Is eye damage. mage to organs through prolonged or repeated	
Notes	to physician	: Treat sympton	natically.	

Suitable extinguishing media	:	Carbon dioxide (CO2) Dry chemical Foam
Unsuitable extinguishing media	:	High volume water jet
		High volume water jet
Specific hazards during fire-	:	Do not allow run-off from fire fighting to enter drains or water



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	fighting			courses.	
Hazardous combustion prod- ucts		:	Thermal decompo and vapours. Halogenated com Carbon oxides	osition can lead to release of irritating gases pounds	
	Specific ods	c extinguishing meth-	:	must not be disch Fire residues and	ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.
	Special for firef	protective equipment ighters	:	Wear self-contain essary.	ed breathing apparatus for firefighting if nec-
	Hazche	em Code	:	•3Z	

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

#### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.



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Cond	ditions for safe storage	:	place. Containers wh kept upright to Electrical insta	er tightly closed in a dry and well-ventilated nich are opened must be carefully resealed and o prevent leakage. allations / working materials must comply with ical safety standards.
	ner information on stor- stability	:	No decompos	ition if stored and applied as directed.

### 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	
propane-1,2-diol	57-55-6	TWA (partic- ulate)	10 mg/m3	AU OEL	
		TWA (Total (vapour and particles))	150 ppm 474 mg/m3	AU OEL	
Personal protective equip	ment				
Respiratory protection		mist, spray or aero ratory protection a	sol exposure wear sund protective suit.	iitable per-	
	No persona quired.	al respiratory prote	ctive equipment norn	nally re-	
Hand protection Material		nical resistant glove er or nitrile rubber.	es, such as barrier la	minate,	
Remarks		The suitability for a specific workplace should be discussed with the producers of the protective gloves.			
Eye protection	Tightly fittir	Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.			
Skin and body protection	Choose bo	Impervious clothing Choose body protection according to the amount and con- centration of the dangerous substance at the work place.			

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
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: liquid



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(	Colour		:	white, opaque	
(	Odour		:	mild, like soap	
ł	рН		:	not determined	
I	Melting	point/range	:	not determined	
I	Boiling	point/boiling range	:	not determined	
I	Relativ	e density	:	1.02	
I	Bulk de	ensity	:	not determined	
\$	Solubili Wat	ity(ies) ter solubility	:	not determined	
Ň	Viscosi Visc	ity cosity, kinematic	:	not determined	
I	Explosi	ive properties	:	Not explosive	
(	Oxidiziı	ng properties	:	Non-oxidizing	

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reac- tions	:	No decomposition if stored and applied as directed.
Conditions to avoid	:	Protect from frost, heat and sunlight.
		No data available
Incompatible materials	:	Strong oxidizing agents Strong acids Strong bases
		Not applicable
Hazardous decomposition products	:	Stable under recommended storage conditions.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Harmful if swallowed or if inhaled.

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F	Produ	ct:			
		oral toxicity	:		and female): 531 mg/kg on data from similar materials
Ą	Acute i	nhalation toxicity	:	Exposure time: 4 Test atmosphere:	
A	Acute o	dermal toxicity	:	LD50 (Rabbit): > Remarks: Based	2,000 mg/kg on data from similar materials
<u>c</u>	Compo	onents:			
b	oifenth	nrin (ISO):			
A	Acute of	oral toxicity	:	LD50 (Rat): 53.4	mg/kg
Д	Acute i	nhalation toxicity	:	LC50 (Rat, female Exposure time: 4 Test atmosphere: Method: OECD T	h dust/mist
				LC50 (Rat, male) Exposure time: 4 Test atmosphere: Method: OECD T	h dust/mist
A	Acute o	dermal toxicity	:	LD50 (Rabbit): >	2,000 mg/kg
p	oropai	ne-1,2-diol:			
-	-	oral toxicity	:	LD50 (Rat, male a	and female): 22,000 mg/kg
Д	Acute i	nhalation toxicity	:	LC0 (Rabbit): 31. Exposure time: 2 Test atmosphere: Remarks: no mor	h vapour
<u>م</u>	Acute o	dermal toxicity	:	LD50 (Rabbit): > Assessment: The toxicity	2,000 mg/kg substance or mixture has no acute dermal
-		orrosion/irritation ssified based on availa	able	information.	
	Produ				
F	Specie Result Remar		:	Rabbit No skin irritation Based on data fro	m similar materials

: Extremely corrosive and destructive to tissue.



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	Comp	onents:			
		<b>hrin (ISO):</b> es d	:	Rabbit EPA OPP 81-5 No skin irritation	
	<b>propa</b> Specie Metho Result	d	:	Rabbit OECD Test Guide No skin irritation	eline 404
	Seriou	ıs eye damage/eye irı	ritati	on	
		s serious eye damage.			
	<u>Produ</u> Specie Result Remai	28	:	Rabbit Irreversible effect Based on data fro	s on the eye om similar materials
	Rema	rks	:	May cause irreve	rsible eye damage.
	<u>Comp</u>	onents:			
	bifent Specie Result Metho		:	Rabbit No eye irritation EPA OPP 81-4	
	<b>propa</b> Specie Result Metho		:	Rabbit No eye irritation OECD Test Guide	eline 405
	Respi	ratory or skin sensitis	satio	on	
		ensitisation ause an allergic skin re	actio	on.	
	Respi	ratory sensitisation assified based on availa			
	<u>Produ</u>	<u>ct:</u>			
	Specie Result Remai		:		isation by skin contact. om similar materials
	Rema	rks	:	Causes sensitisat	ion.



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Components:		
<b>bifenthrin (ISO):</b> Method Result	: OECD Test Gu : May cause sen	ideline 406 sitisation by skin contact.
<b>propane-1,2-diol:</b> Test Type Species Result	: Maximisation T : Guinea pig : negative	est
Chronic toxicity		
Germ cell mutagenicity Not classified based on avail	able information.	
Components:		
<b>bifenthrin (ISO):</b> Genotoxicity in vitro	: Test system: C Result: negativ	hinese hamster ovary cells e
Genotoxicity in vivo	: Test Type: Bon Species: Rat Result: negativ	e marrow chromosome aberration e
propane-1,2-diol:		
Genotoxicity in vitro	: Test Type: reve Result: negativ	erse mutation assay e
Genotoxicity in vivo	: Test Type: In v Species: Mous Result: negativ	
<b>Carcinogenicity</b> Not classified based on avail	able information.	
Components:		
bifenthrin (ISO):		
Species Application Route Exposure time NOAEL Result	: Rat : Oral : 2 Years : 3 mg/kg bw/day : negative	у
Species Application Route Exposure time NOAEL Result	: Mouse : Oral : 18 month(s) : 7.6 mg/kg bw/d : positive	lay
Carcinogenicity - Assess-	: Weight of evide	ence does not support classification as a car-



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ment		cinogen	
propa	ane-1,2-diol:		
	cation Route sure time	: Rat : Oral : 2 Years : negative	
-	oductive toxicity assified based on avail	able information.	
Comp	oonents:		
bifent	thrin (ISO):		
	s on fertility	Species: Ra Application General Tox	Route: Oral kicity - Parent: NOAEL: 3 mg/kg bw/day kicity F1: NOAEL: 3 mg/kg bw/day
Effect ment	s on foetal develop-	Species: Ra Application General Tox Symptoms:	
Repro sessn	oductive toxicity - As- nent	: Weight of ev ductive toxic	vidence does not support classification for repro
propa	ane-1,2-diol:		
• •	s on fertility	: Test Type: r Species: Mo Application Result: nega	Route: Oral
Effect ment	s on foetal develop-	Species: Mo Application Method: OE Result: Anin	
	- single exposure		
	assified based on avail <b>conents:</b>	lable information.	

Components:

# bifenthrin (ISO):

Remarks

: No significant adverse effects were reported



e to organs (Ne e to ingans (Ne : : : <b>xicity</b>	Nervous system The substance or	ough prolonged or repeated exposure. mixture is classified as specific target organ l exposure, category 1.
:	Nervous system The substance or	mixture is classified as specific target organ
: : xicity	The substance or	
: xicity	The substance or	
xicity		
	Rat 7 - 9 mg/kg Oral 90 d	
	Rat, male and fen 1,700 mg/kg Oral 2 Years	nale
	Rat, male and fen 1,000 mg/kg 160 mg/kg Inhalation 90 Days	nale
		: Oral : 2 Years : Rat, male and fen : 1,000 mg/kg : 160 mg/kg : Inhalation

### Components:

#### bifenthrin (ISO):

The substance does not have properties associated with aspiration hazard potential.

#### **Further information**

### Product:

Remarks

: No data available

### SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Components:

### bifenthrin (ISO):



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	Toxicity	r to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0.15 3 h
	Toxicity to daphnia and other aquatic invertebrates		:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.11 3 h
	Toxicity plants	to algae/aquatic	:	EC50 (algae): 0.8 Exposure time: 72	
	M-Facto icity)	or (Acute aquatic tox-	:	10,000	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Oncorhyn Exposure time: 21	chus mykiss (rainbow trout)): 0.12 d
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Crustacea Exposure time: 21	
	M-Facto toxicity)	or (Chronic aquatic	:	100,000	
	Toxicity ganism	r to soil dwelling or- s	:	(Eisenia fetida (e Exposure time: 14	arthworms)): > 18.9 mg/kg ł d
	Toxicity isms	to terrestrial organ-	:	LD50 (Colinus virg	ginianus (Bobwhite quail)): 1,800 mg/kg
				LD50 (Apis mellife Remarks: Contact	era (bees)): 0.015 μg/Bee t
				LD50 (Apis mellife Remarks: Oral	era (bees)): 0.1 μg/Bee
	propan	e-1,2-diol:			
	Toxicity		:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 40,613 mg/l 3 h
		to daphnia and other invertebrates	:	(Mysidopsis bahia Exposure time: 96	a (opossum shrimp)): 18,800 mg/l Sh
	Toxicity plants	r to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 48 Method: OECD Te	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 13,020 mg Exposure time: 7	
	Toxicity	to microorganisms	:	EC50 (Pseudomo Exposure time: 18	nas putida): > 20,000 mg/l 3 h



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Persi	stence and degradabi	lity		
<u>Com</u>	ponents:			
bifen	thrin (ISO):			
Biode	egradability	:	Result: Not read	ily biodegradable.
propa	ane-1,2-diol:			
Biode	egradability	:	Result: Readily b Biodegradation: Exposure time: 6 Method: OECD	23.6 %
Bioac	ccumulative potential			
<u>Com</u>	ponents:			
bifen	thrin (ISO):			
Bioac	cumulation	:	Bioconcentration Remarks: Due to accumulation in	is macrochirus (Bluegill sunfish) factor (BCF): 1,414 the distribution coefficient n-octanol/water, organisms is possible. r octanol-water partition coefficient.
propa	ane-1,2-diol:			
	ion coefficient: n- ol/water	:	log Pow: -1.07	
Mobi	lity in soil			
Com	ponents:			
bifen	thrin (ISO):			
	bution among environ- al compartments	:	Remarks: immot	bile
Stabil	lity in soil	:	Dissipation time:	86 d
Othe	r adverse effects			
Produ	uct:			
Additi matio	ional ecological infor- n	:	unprofessional h	al hazard cannot be excluded in the event of andling or disposal. atic life with long lasting effects.

## SECTION 13. DISPOSAL CONSIDERATIONS

## **Disposal methods**

Waste from residues	:	The product should not be allowed to enter drains, water
		courses or the soil.
		Do not contaminate ponds, waterways or ditches with chemi-



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			cal or used co Send to a licer	ntainer. nsed waste management company.
Conta	aminated packaging	:		ing contents. unused product. empty containers.
SECTION	14. TRANSPORT INFO	RM	ATION	
Interi	national Regulations			
	<b>TDG</b> umber er shipping name	:	UN 3082 ENVIRONMEI N.O.S. (Bifenthrin)	NTALLY HAZARDOUS SUBSTANCE, LIQUID
Class Packi Label	ing group	:	9 111 9	
UN/IE	<b>-DGR</b> D No. er shipping name	:	UN 3082 Environmenta (Bifenthrin)	lly hazardous substance, liquid, n.o.s.
Label	ing group ls ing instruction (cargo	:	9 III Miscellaneous 964	i
Packi ger ai	ing instruction (passen- ircraft) onmentally hazardous	:	964 yes	
IMDO UN n	<b>G-Code</b> umber er shipping name	:	UN 3082 ENVIRONMEI N.O.S.	NTALLY HAZARDOUS SUBSTANCE, LIQUID
Label EmS	ing group	:	(Bifenthrin) 9 III 9 F-A, S-F yes	
	sport in bulk according pplicable for product as	-		RPOL 73/78 and the IBC Code
Natio	nal Regulations			
ADG				

<b>ADG</b> UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bifenthrin)
Class Packing group	:	9 



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Labels Hazchem Code Remarks			the ADG Code when transported by Road or a, in packages 500kg(L) or less

### 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

Standard for the Uniform : Schedule 6 Scheduling of Medicines and Poisons

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

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

TCSI	:	On the inventory, or in compliance with the inventory	
TSCA	:	Product contains substance(s) not listed on TSCA inventory.	
AIIC	:	Not in compliance with the inventory	
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.	
		2-METHYLBIPHENYL-3-YLMETHYL (Z)-(1RS,3RS)-3-(2- CHLORO-3,3,3-TRIFLUOROPROP-1-ENYL)-2,2- DIMETHYLCYCLOPROPANECARBOXYLATE Smectite-group minerals	
ENCS	:	Not in compliance with the inventory	
ISHL	:	Not in compliance with the inventory	
KECI	:	On the inventory, or in compliance with the inventory	
PICCS	:	Not in compliance with the inventory	
IECSC	:	On the inventory, or in compliance with the inventory	



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NZIoC		:	Not in compliance with the inventory				
SECTION 16. OTHER INFORMATION							
Revision Date		:	02.08.2021				
Date format		:	dd.mm.yyyy				
Full text of other abbreviations							
AU OEL		:	Australia. Workplace Exposure Standards for Airborne Con- taminants.				
AU OEL / TWA		:	Exposure standard - time weighted average				
AIIC - Australian Inventory of Industrial Chemicals: ANTT - National Agency for Transp				: ANTT - National Agency for Transport by			

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; 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

### Disclaimer

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