



ntification dentifier	:		
	:		
		Abamectin Liquic	Formulation
ended use of the ch	em	ical and restriction	ons on use
ended use	:	Veterinary produ	ct
ns on use	:	Not applicable	
urer or supplier's d	etai	ils	
	:	MSD	
	:	50 Tuas West Dr Singapore - Sing	
Э	:	+1-908-740-4000	)
cy telephone number	:	65 6697 2111 (24	4/7/365)
dress	:	EHSDATASTEW	/ARD@msd.com
	ns on use c <b>urer or supplier's d</b> e	ns on use : curer or supplier's detain : e : cy telephone number : dress :	Ins on use : Not applicable Furer or supplier's details : MSD : 50 Tuas West Dr Singapore - Sing e : +1-908-740-4000 cy telephone number : 65 6697 2111 (24 dress : EHSDATASTEW

# hazard Long-term (chronic) aquatic : Category 1 hazard

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

### GHS Label elements, including precautionary statements

Classification of the substance or mixture Acute toxicity (Inhalation) : Category 4

Short-term (acute) aquatic : Category 1

repeated exposure

Hazard pictograms		
Signal word	: Warning	
Hazard statements	<ul> <li>H332 Harmful if inhaled.</li> <li>H373 May cause damage to organs (Central nervous system through prolonged or repeated exposure.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> </ul>	)





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Preca	autionary statements	P271 Use only	reathe mist or vapours. outdoors or in a well-ventilated area. ease to the environment.
		and keep com doctor if you fe	ical advice/ attention if you feel unwell.
		<b>Disposal:</b> P501 Dispose disposal plant.	of contents/ container to an approved waste
	<b>r hazards which do n</b> known.	ot result in classifica	tion
Section 3	: Composition/inform	nation on ingredients	
Subs	tance / Mixture	: Mixture	

Components

Chemical name	CAS-No.	Concentration (% w/w)
abamectin (combination of avermectin B1a and	71751-41-2	>= 1 -< 2.5
avermectin B1b) (ISO)		

### Section 4: First-aid measures

Description of necessary first-aid measures				
General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medical advice.</li> </ul>			
If inhaled	<ul> <li>If inhaled, remove to fresh air.</li> <li>If not breathing, give artificial respiration.</li> <li>If breathing is difficult, give oxygen.</li> <li>Get medical attention.</li> </ul>			
In case of skin contact	<ul> <li>In case of contact, immediately flush skin with soap and plenty of water.</li> <li>Remove contaminated clothing and shoes.</li> <li>Get medical attention.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul>			
In case of eye contact	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.			
If swallowed	: If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.			





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Most	important symptoms a	nd effects, both a	cute and delayed
Risks		: Harmful if inha May cause dar exposure.	led. mage to organs through prolonged or repeated
Prote	ction of first-aiders	: First Aid respo and use the re	onders should pay attention to self-protection, commended personal protective equipment ntial for exposure exists (see section 8).
Indic	ation of any immediate	medical attention	and special treatment needed
Treat	ment	: Treat symptom	natically and supportively.
Section 5	: Fire-fighting measure	S	
Exting	guishing media		
Suital	ble extinguishing media	: Water spray Alcohol-resista Carbon dioxide Dry chemical	
Unsu media	itable extinguishing	: None known.	
Spec	ial hazards arising from	n the substance o	r mixture
fightir	ng	·	ombustion products may be a hazard to health.
ucts	rdous combustion prod-	: Carbon oxides	)
Spec	ial protective actions for	or fire-fighters	
for fire	al protective equipment efighters fic extinguishing meth-	Use personal p : Use extinguish	fire, wear self-contained breathing apparatus. protective equipment. hing measures that are appropriate to local cir- nd the surrounding environment.
003		Use water spra	ay to cool unopened containers. maged containers from fire area if it is safe to c
		Evacuate area	ι.
Section 6	: Accidental release me	easures	
	precautions, protective onal precautions	: Use personal p	mergency procedures protective equipment. andling advice (see section 7) and personal pro-

### **Environmental precautions**

Environmental precautions	:	Avoid release to the environment.
-		Prevent further leakage or spillage if safe to do so.
		Prevent spreading over a wide area (e.g. by containment or oil
		barriers).
		Retain and dispose of contaminated wash water.
		Local authorities should be advised if significant spillages



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		cannot be conta	ained.
Methods a	and materials for co	ntainment and cleanir	ng up
Methods and materials for con Methods for cleaning up		For large spills, ment to keep m be pumped, sto Clean up remai bent. Local or nationa posal of this ma employed in the mine which reg Sections 13 and	ert absorbent material. provide dyking or other appropriate contain- aterial from spreading. If dyked material can re recovered material in appropriate container ning materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items a cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements.

### Precautions for safe handling

Technical measures	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the
Hygiene measures	<ul> <li>environment.</li> <li>If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.</li> <li>When using do not eat, drink or smoke.</li> <li>Wash contaminated clothing before re-use.</li> <li>The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.</li> </ul>
Conditions for safe storage, i	cluding any incompatibilities
Conditions for safe storage	Keep in properly labelled containers. Keep tightly closed.



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Mater	rials to avoid	: Do not store wit	th the following product types:

Strong oxidizing agents

Section 8: Exposure controls/personal protection

#### **Control parameters**

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
abamectin (combination of avermectin B1a and avermec- tin B1b) (ISO)	71751-41-2	TWA	15 μg/m3 (OEB 3)	Internal
		Wipe limit	150 µg/100 cm <sup>2</sup>	Internal

Appropriate engineering : control 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.
Individual protection measure	s, such as personal protective equipment (PPE)
Eye/face protection : Skin 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 aerosols. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type : Hand protection	Combined particulates and organic vapour type
Material :	Chemical-resistant gloves



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	Ron	narks		Consider double g	loving
Sect		Physical and chemica			Joving.
	Appear	-	:	liquid	
	Colour		:	light yellow	
	Odour		:	characteristic	
	Odour <sup>-</sup>	Threshold	:	No data available	
	pН		:	No data available	)
	Melting	point/freezing point	:	No data available	)
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	oint	:	No data available	9
	Evapor	ation rate	:	No data available	9
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	)
		explosion limit / Upper bility limit	:	No data available	)
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available	9
	Relative	e vapour density	:	No data available	)
	Relative	e density	:	No data available	)
	Density	,	:	0.90 - 0.94 g/cm <sup>3</sup>	
	Solubili Wat	ty(ies) er solubility	:	insoluble	
		n coefficient: n-	:	Not applicable	
	octanol Auto-ig	/water nition temperature	:	No data available	)
	Decom	position temperature	:	No data available	)
	Viscosi Visc	ty cosity, kinematic	:	No data available	

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Explo	sive properties	: Not explosi	ve
Oxidiz	zing properties	: The substa	nce or mixture is not classified as oxidizing.
Molec	cular weight	: No data ava	ailable
	le characteristics le size	: Not applica	ble
ction 1	0: Stability and reactiv	ity	
	tivity nical stability bility of hazardous reac	: Stable unde	ed as a reactivity hazard. er normal conditions. vith strong oxidizing agents.
	itions to avoid apatible materials	: None know : Oxidizing a	
	rdous decomposition		bus decomposition products are known.
ction 1	1: Toxicological inform	nation	
Inforn expos	nation on likely routes o sure	f : Inhalation Skin contact Ingestion Eye contact	
	<b>e toxicity</b> ful if inhaled.		
Produ	uct:		
Acute	oral toxicity		y estimate: > 2,000 mg/kg culation method
Acute	inhalation toxicity	Exposure tir Test atmosp	y estimate: 2.3 mg/l ne: 4 h here: dust/mist culation method
Acute	e dermal toxicity		y estimate: > 2,000 mg/kg culation method
<u>Com</u>	oonents:		
abam	ectin (combination of	avermectin B1a	and avermectin B1b) (ISO):
	oral toxicity	: LD50 (Rat):	
		LD50 (Mous	e): 10 mg/kg
		I DL o (Monk	ey): 24 mg/kg





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		Symptoms: Dilatation of the pupil	
Acute	e inhalation toxicity	: LC50 (Rat): 0.023 mg/l Exposure time: 4 h Test atmosphere: dust/mist	
Acute	e dermal toxicity	: LD50 (Rat): 330 mg/kg	
		LD50 (Rabbit): 2,000 mg/kg	
Skin	corrosion/irritation		
Not c	lassified based on avai	able information.	
<u>Com</u>	ponents:		
	•	avermectin B1a and avermectin B1b) (ISO):	
Spec Resu		: Rabbit : No skin irritation	
Com	•	able information. avermectin B1a and avermectin B1b) (ISO): : Rabbit	
Resu		: Mild eye irritation	
Resp	piratory or skin sensiti	sation	
•	sensitisation	able information	
	piratory sensitisation	able mormation.	
-	lassified based on avai	able information.	
<u>Com</u>	ponents:		
aban	nectin (combination o	avermectin B1a and avermectin B1b) (ISO):	
Test Expo Resu	sure routes	<ul> <li>Maximisation Test</li> <li>Skin contact</li> <li>Not a skin sensitizer.</li> </ul>	
	n <b>cell mutagenicity</b> classified based on avai	able information.	
<u>Com</u>	ponents:		
	•	avermectin B1a and avermectin B1b) (ISO):	
Geno	otoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AME Result: negative	S)





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				o mammalian cell gene mutation test nese hamster lung cells
			Test Type: Alkalir Result: negative	e elution assay
Ge	enotoxicity in vivo	:	cytogenetic test, o Species: Mouse	enicity (in vivo mammalian bone-marrow chromosomal analysis) : Intraperitoneal injection
	arcinogenicity ot classified based on availa	able	information.	
<u>Cc</u>	omponents:			
	amectin (combination of	ave		avermectin B1b) (ISO):
	ecies plication Route	:	Rat Oral	
Ex	posure time	:	105 weeks negative	
			Mouse	
	pecies	:	Oral	
	posure time esult	:	93 weeks negative	
Ba	productive toxicity			
	ot classified based on availa	able	information.	
<u>Cc</u>	omponents:			
ab	amectin (combination of	ave	mectin B1a and a	avermectin B1b) (ISO):
Efi	fects on fertility	:	Test Type: Fertilit Species: Rat, mal Application Route Result: Effects on	e : Oral
				eneration reproduction toxicity study
			Application Route	Development: NOAEL: 0.12 mg/kg body
	fects on foetal develop- ent	:	Species: Mouse Application Route General Toxicity	ro-foetal development : Oral Maternal: NOAEL: 0.05 mg/kg body weight oxicity: NOAEL: 0.2 mg/kg body weight
				show, how here one maying body worght



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			Result: Cleft pala Remarks: Advers	te e developmental effects were observed
			Species: Rabbit Application Route Developmental T Result: Cleft pala survival	yo-foetal development e: Oral oxicity: LOAEL: 2 mg/kg body weight te, Teratogenic effects, Reduced embryonic e developmental effects were observed
			Test Type: Devel Species: Rat Application Route Developmental T Result: Teratoger	e: Oral oxicity: LOAEL: 1.6 mg/kg body weight
•	oductive toxicity - As- ment	:	fertility, based on	of adverse effects on sexual function and animal experiments., Some evidence of n development, based on animal experi-

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

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

#### Components:

#### abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

-	
Exposure routes	: Ingestion
Target Organs	: Central nervous system
Assessment	: Causes damage to organs through prolonged or repeated
	exposure.

#### Repeated dose toxicity

#### **Components:**

#### abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

Species	:	Rat
NOAEL	:	1.5 mg/kg
Application Route	:	Oral
Exposure time	:	24 Months
Target Organs	:	Central nervous system
Symptoms	:	Tremors, ataxia
Species	:	Mouse
NOAEL	:	4.0 mg/kg
Application Route	:	Oral
Exposure time	:	24 Months



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Symp Speci NOAE LOAE Applic Expos	es EL EL cation Route sure time et Organs otoms arks	<ul> <li>Central nerv</li> <li>Tremors, ata</li> <li>Dog</li> <li>0.25 mg/kg</li> <li>0.5 mg/kg</li> <li>Oral</li> <li>53 Weeks</li> <li>Central nerv</li> <li>Tremors, we</li> <li>mortality obs</li> <li>Monkey</li> </ul>	ous system ight loss			
NOAE Applic Expos		: 1.0 mg/kg : Oral : 14 Weeks	1.0 mg/kg Oral			
Not cl Expe <u>Com</u>	•	f avermectin B1a	<b>and avermectin B1b) (ISO):</b> May cause, Tremors, Diarrhoea, central nervous tts, Salivation, tearing			
Toxic	2: Ecological informa :ity <u>ponents:</u>	ntion				
	ectin (combination o ity to fish	: LC50 (Onco Exposure tin	<b>and avermectin B1b) (ISO):</b> rhynchus mykiss (rainbow trout)): 3.2 μg/l ne: 96 h nis macrochirus (Bluegill sunfish)): 9.6 μg/l			
		Exposure tin	ne: 96 h rus punctatus (channel catfish)): 24 μg/l			
		Exposure tin	nodon variegatus (sheepshead minnow)): 15 µg/l			
Toxici	ity to daphnia and othe		icamysis): 0.022 μg/l			

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aquati	ic invertebrates		Exposure time:	96 h			
			EC50 (Daphnia Exposure time:	magna (Water flea)): 0.34 µg/l 48 h			
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudok mg/l Exposure time:	irchneriella subcapitata (green algae)): 10 72 h			
M-Fac icity)	ctor (Acute aquatic tox-	:	10,000				
	ty to fish (Chronic tox-	:	NOEC (Pimepha Exposure time:	ales promelas (fathead minnow)): 0.52 μg/ 32 d			
aquati	ic invertebrates (Chron-	:	NOEC (Daphnia Exposure time:	a magna (Water flea)): 0.03 µg/l 21 d			
ic toxi	city)		NOEC (Mysidop Exposure time:	osis bahia (opossum shrimp)): 0.0035 μg/l 28 d			
	M-Factor (Chronic aquatic		10,000				
toxicit Toxici	y) ty to microorganisms	:	EC50: > 1,000 r Exposure time: Test Type: Resp				
Persis	stence and degradabili	ity					
<u>Comp</u>	<u>Components:</u>						
	ectin (combination of a ity in water	ave :	rmectin B1a and Hydrolysis: 50 %	<b>I avermectin B1b) (ISO):</b> %(< 12 h)			
Bioac	cumulative potential						
Comp	oonents:						
	ectin (combination of a cumulation	ave :		<b>I avermectin B1b) (ISO):</b> n factor (BCF): 52			
	on coefficient: n- ol/water	:	log Pow: 4				
Mobil	ity in soil						
<u>Comp</u>	oonents:						
abam	ectin (combination of	ave	rmectin B1a and	l avermectin B1b) (ISO):			
	oution among environ- al compartments	:	log Koc: > 3.6				
	adverse effects ta available						
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#### 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. If not otherwise specified: Dispose of as unused product.

#### Section 14: Transport information

#### International Regulations

UNRTDG		
UN number	:	UN 3082
UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(abamectin (combination of avermectin B1a and avermectin B1b) (ISO))
Transport hazard class(es)		9
Packing group		
Labels	÷	9
Environmental hazards	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
UN proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s.
		(abamectin (combination of avermectin B1a and avermectin
Transport bozard alass(as)		B1b) (ISO))
Transport hazard class(es)	÷	9 
Packing group Labels	:	Miscellaneous
Packing instruction (cargo	:	964
aircraft)	·	904
Packing instruction (passen-	:	964
ger aircraft)		1/00
Environmentally hazardous	·	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(abamectin (combination of avermectin B1a and avermectin
		B1b) (ISO))
Transport hazard class(es)	:	9
Packing group	:	
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

#### Transport in bulk according to IMO instruments

Not applicable for product as supplied.



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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 specific for the product in question

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

Environmental Protection and Management Act and : Not applicable Environmental Protection and Management (Hazardous Substances) Regulations

Fire Safety (Petroleum and Flammable Materials) : Not applicable Regulations

#### 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	:	06.04.2024
Further information		
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/
Date format	:	dd.mm.yyyy

Full text of other abbreviations

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 con-

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### Abamectin Liquid Formulation

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centration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization: ISHL - Industrial Safety and Health Law (Japan): ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

SG / EN