

AGADOR Version **Revision Date:** SDS Number: This version replaces all previous versions. 8.0 09.08.2021 S1483384710 SECTION 1. PRODUCT AND COMPANY IDENTIFICATION Product name : AGADOR Design code : A12115I Manufacturer or supplier's details Company Syngenta Australia Pty Ltd (ABN 33 002 933 717) : www.syngenta.com.au Address : 2-4 Lyonpark Road Macquarie Park NSW 2113 Australia (02) 8014 5200 Telephone : Emergency telephone number : 13 11 26 (Poison Information Centre) 1800 033 111 (Syngenta) Telefax (02) 8876 8446 2

Recommended use of the chemical and restrictions on use

Recommended use	:	Insecticide
	-	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		
Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Specific target organ toxicity - repeated exposure	:	Category 2 (Nervous system)
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H302 + H332 Harmful if swallowed or if inhaled. H373 May cause damage to organs (Nervous system) through prolonged or repeated exposure.
Precautionary statements	:	Prevention:

SAFETY DATA SHEET



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P260 Do not breathe mist or vapours.P264 Wash skin thoroughly after handling.P270 Do not eat, drink or smoke when using this product.P271 Use only outdoors or in a well-ventilated area.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P314 Get medical advice/ attention if you feel unwell.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
abamectin (combination of avermectin B1a and	71751-41-2	>= 1 -< 3
avermectin B1b) (ISO)		

SECTION 4. FIRST AID MEASURES

General advice	 Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.
lf inhaled	Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respira- tion. Keep patient warm and at rest.
In case of skin contact	Call a physician or poison control centre immediately. Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.
In case of eye contact	 Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.
If swallowed	If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.
Most important symptoms and effects, both acute and	Lack of coordination Tremors



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delaye Notes	ed to physician	It is probably w (barbiturates, b potentially toxic Toxicity can be absorbents (e. If toxicity from iting, the exten should be gaug Appropriate su should be give	s believed to enhance GABA activity in animals. vise to avoid drugs that enhance GABA activity benzodiaziphines, valproic acid) in patients with c mectin exposure. e minimized by early administration of chemical g. activated charcoal). exposure has progressed to cause severe vom- t of resultant fluid and electrolyte imbalance

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media		Extinguishing media - small fires Use water spray, alcohol-resistant foam, dry chemical or car- bon dioxide. Extinguishing media - large fires Alcohol-resistant foam or Water spray
Unsuitable extinguishing media		Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during fire- fighting	:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous prod- ucts of combustion (see section 10). Exposure to decomposition products may be a hazard to health.
Specific extinguishing meth- ods	:	Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.
Special protective equipment for firefighters Hazchem Code	:	

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Contain spillage, and then collect with non-combustible ab- sorbent material, (e.g. sand, earth, diatomaceous earth, ver- miculite) and place in container for disposal according to local



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/ national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.
Conditions for safe storage	 No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.
Further information on stor- age stability	: Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components CAS-No. Value type Control parame-Basis ters / Permissible (Form of exposure) concentration abamectin (combination of 71751-41-2 TWA 0.02 mg/m3 Syngenta avermectin B1a and avermectin B1b) (ISO) **Engineering measures** 2 THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL. Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice. Personal protective equipment Respiratory protection When workers are facing concentrations above the exposure 2

Components with workplace control parameters

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Hanc	l protection	Respirator with The filter class imum expecte (gas/vapour/ac dling the produ	atory equipment: n a half face mask for the respirator must be suitable for the max- d contaminant concentration erosol/particulates) that may arise when han- uct. If this concentration is exceeded, self- athing apparatus must be used.	
Bi	aterial reak through time love thickness	: Nitrile rubber : > 480 min : 0.5 mm		
R	emarks	does not only features and is Please observ breakthrough f gloves. Also ta tions under wh cuts, abrasion depends amor and the type o each case. Glo	e gloves. The choice of an appropriate glove depend on its material but also on other quality a different from one producer to the other. e the instructions regarding permeability and time which are provided by the supplier of the take into consideration the specific local condi- tich the product is used, such as the danger of and the contact time. The break through time the glove and therefore has to be measured for toves should be discarded and replaced if there on of degradation or chemical breakthrough.	
	protection and body protection	 No special pro Choose body tration and am cific work-plac Remove and v Wear as approx 	No special protective equipment required.	
Prote	ective measures	: The use of tec over the use o	hnical measures should always have priority f personal protective equipment. g personal protective equipment, seek appro-	
		Personal prote national stand	ective equipment should comply with relevant ards	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: dark red to black
Odour	: No data available
Odour Threshold	: No data available
рН	: 5 - 9 Concentration: 1 % w/v
Melting point/range	: No data available



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Bo	oiling point/boiling range	:	No data available	9
FI	ash point	:	Method: Pensky- does not flash	Martens closed cup
E	vaporation rate	:	No data available	9
FI	ammability (solid, gas)	:	No data available	9
	pper explosion limit / Upper ammability limit	:	No data available	9
	ower explosion limit / Lower ammability limit	:	No data available	9
Va	apour pressure	:	No data available	
R	elative vapour density	:	No data available	9
D	ensity	:	1.198 g/cm3 (25	°C)
Se	olubility(ies) Solubility in other solvents	:	No data available	9
	artition coefficient: n- ctanol/water	:	No data available	9
	uto-ignition temperature	:	630 °C	
D	ecomposition temperature	:	No data available	9
Vi	scosity Viscosity, dynamic	:	70 - 336 mPa.s (40 °C)
			106 - 436 mPa.s	(20 °C)
	Viscosity, kinematic	:	No data available	9
E	xplosive properties	:	Not explosive	
0	xidizing properties	:	The substance o	r mixture is not classified as oxidizing.
S	urface tension	:	37.2 mN/m, 20 °	C
Pa	article size	:	No data available	9

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.



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tions Conditi Incomp	ility of hazardous reac- ions to avoid patible materials dous decomposition ts	 No dangerous reaction known under conditions of normal u No decomposition if used as directed. None known. No hazardous decomposition products are known.
ECTION 1	1. TOXICOLOGICAL I	NFORMATION
Exposi	ure routes	: Ingestion Inhalation Skin contact Eye contact
Acute	toxicity	
Produ		
Acute	oral toxicity	: LD50 (Rat, female): 1,086 mg/kg
Acute i	nhalation toxicity	 LC50 (Rat, male and female): > 1.02 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The component/mixture is moderately toxic aff short term inhalation., The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.
Acute	dermal toxicity	: LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute derma toxicity
Comp	onents:	
abame	ectin (combination of a	avermectin B1a and avermectin B1b) (ISO):
Acute	oral toxicity	: LD50 (Rat, male): 8.7 mg/kg
Acute i	nhalation toxicity	: LC50 (Rat, female): > 0.034 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute	dermal toxicity	: LD50 (Rat, male): 200 - 300 mg/kg Assessment: The component/mixture is toxic after single co tact with skin.
Skin c	orrosion/irritation	
Produ	<u>ct:</u>	
Specie Result		: Rabbit : No skin irritation
Comp	onents:	
abame Specie		avermectin B1a and avermectin B1b) (ISO):



AGADOR Version Revision Date: SDS Number: This version replaces all previous versions. 09.08.2021 S1483384710 8.0 Result No skin irritation 5 Serious eye damage/eye irritation Product: Species Rabbit : Result 5 No eye irritation **Components:** abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Species Rabbit : Result 2 No eye irritation Respiratory or skin sensitisation **Product:** Species Guinea pig 2 Result Did not cause sensitisation on laboratory animals. 1 **Components:** abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Test Type Local lymph node assay (LLNA) Species Mouse 2 Result Does not cause skin sensitisation. 2 **Chronic toxicity** Germ cell mutagenicity Components: abamectin (combination of avermectin B1a and avermectin B1b) (ISO): : Animal testing did not show any mutagenic effects. Germ cell mutagenicity -Assessment Carcinogenicity **Components:** abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Carcinogenicity - Assess-: No evidence of carcinogenicity in animal studies. ment **Reproductive toxicity Components:** abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Reproductive toxicity - As-Some evidence of adverse effects on development, based on : sessment animal experiments.



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STOT - repeated exposure

Components:

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

Target Organs	: Nervous system
Assessment	: The substance or mixture is classified as specific target organ
	toxicant, repeated exposure, category 1.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.41 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.0012 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l Exposure time: 72 h
		NOEC (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l End point: Growth rate Exposure time: 72 h

Components:

abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2.7 µg/l

	•	Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Americamysis): 0.022 μg/l Exposure time: 96 h
Toxicity to algae/aquatic plants	:	ErC50 (Navicula pelliculosa (Freshwater diatom)): > 1 mg/l Exposure time: 96 h
		EC10 (Navicula pelliculosa (Freshwater diatom)): 0.71 mg/l End point: Growth rate Exposure time: 96 h
		NOEC (Navicula pelliculosa (Freshwater diatom)): 0.4 mg/l End point: Growth rate Exposure time: 96 h
M-Factor (Acute aquatic tox- icity)	:	10,000
Toxicity to fish (Chronic tox-	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 0.52 µg/l



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icity)			Exposure time:	72 d
aquat	ity to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia Exposure time:	a magna (Water flea)): 0.01 µg/l 21 d
ic toxi	City)		NOEC (America Exposure time:	amysis): 0.002 mg/l 28 d
M-Fac toxicit	ctor (Chronic aquatic	:	10,000	
	ity to microorganisms	:	EC50 (activated Exposure time:	l sludge): > 100 mg/l 3 h
Persi	stence and degradabili	ity		
<u>Comp</u>	oonents:			
	ectin (combination of a gradability	ave :		d avermectin B1b) (ISO): dily biodegradable.
Stabil	ity in water	:	Degradation ha	lf life: 1.7 d uct is not persistent.
Bioad	cumulative potential			
	cumulative potential			
<u>Comp</u>	oonents:	ave		d avermectin B1b) (ISO):
<u>Comp</u> abam	oonents:	ave :	rmectin B1a and	
<u>Comp</u> abam Bioac Partiti	oonents: ectin (combination of a	ave :	rmectin B1a and	d avermectin B1b) (ISO):
Comp abam Bioac Partiti octan	oonents: ectin (combination of a cumulation on coefficient: n-	ave :	r mectin B1a an Remarks: Does	d avermectin B1b) (ISO):
Comp abam Bioac Partiti octan Mobil	oonents: ectin (combination of a cumulation on coefficient: n- ol/water	ave :	r mectin B1a an Remarks: Does	d avermectin B1b) (ISO):
Comp abam Bioac Partiti octan Mobil	oonents: ectin (combination of a cumulation on coefficient: n- ol/water lity in soil oonents:	:	rmectin B1a and Remarks: Does log Pow: 4.4	d avermectin B1b) (ISO):
Comp abam Bioac Partiti octan Mobil Comp abam Distrit	oonents: ectin (combination of a cumulation on coefficient: n- ol/water lity in soil oonents: ectin (combination of a oution among environ-	:	rmectin B1a and Remarks: Does log Pow: 4.4 rmectin B1a and	d avermectin B1b) (ISO): not bioaccumulate.
Comp abam Bioac Partiti octan Mobil Comp abam Distrik menta	oonents: ectin (combination of a cumulation on coefficient: n- ol/water lity in soil oonents: ectin (combination of a	:	rmectin B1a and Remarks: Does log Pow: 4.4 rmectin B1a and Remarks: Sligh Dissipation time Percentage diss	d avermectin B1b) (ISO): not bioaccumulate. d avermectin B1b) (ISO): tly mobile in soils
Comp abam Bioac Partiti octan Mobil Comp abam Distrik menta Stabil	oonents: ectin (combination of a cumulation on coefficient: n- ol/water lity in soil oonents: ectin (combination of a pution among environ- al compartments	:	rmectin B1a and Remarks: Does log Pow: 4.4 rmectin B1a and Remarks: Sligh Dissipation time Percentage diss	d avermectin B1b) (ISO): not bioaccumulate. d avermectin B1b) (ISO): tly mobile in soils e: 12 - 52 d sipation: 50 % (DT50)
Comp abam Bioac Partiti octan Mobil Comp abam Distrik menta Stabil	oonents: ectin (combination of a cumulation on coefficient: n- ol/water lity in soil <u>conents:</u> ectin (combination of a pution among environ- al compartments ity in soil	:	rmectin B1a and Remarks: Does log Pow: 4.4 rmectin B1a and Remarks: Sligh Dissipation time Percentage diss	d avermectin B1b) (ISO): not bioaccumulate. d avermectin B1b) (ISO): tly mobile in soils e: 12 - 52 d sipation: 50 % (DT50)
Comp abam Bioac Partiti octan Mobil Comp abam Distrik menta Stabil Other Comp	onents: ectin (combination of a cumulation on coefficient: n- ol/water lity in soil <u>conents:</u> ectin (combination of a pution among environ- al compartments ity in soil r adverse effects <u>conents:</u>	ave	rmectin B1a and Remarks: Does log Pow: 4.4 rmectin B1a and Remarks: Sligh Dissipation time Percentage diss Remarks: Prode	d avermectin B1b) (ISO): not bioaccumulate. d avermectin B1b) (ISO): tly mobile in soils e: 12 - 52 d sipation: 50 % (DT50)



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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with
	local regulations.
Contaminated packaging	: Non-returnable containers:
	Triple rinse containers.
	Add rinsings to spray tank
	If recycling, replace cap and return clean containers to recy- cler or designated collection point. Containers marked with the drumMUSTER container logo can be taken to a drumMUS- TER collection site (02 6206 6868, www.drummuster.org.au). Empty containers can be landfilled, when in accordance with the local regulations.
	If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Returnable containers:
	Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ABAMECTIN)
Class	:	9
Packing group	:	
Labels	:	9
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (ABAMECTIN)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes



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IMDG-Code

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(ABAMECTIN)
Class	:	9
Packing group	:	
Labels	:	9
EmS Code	:	F-A, S-F
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

ADG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(ABAMECTIN)
Class	:	9
Packing group	:	III
Labels	:	9
Hazchem Code	:	•3Z
Remarks	:	Environmentally Hazardous Substances meeting the descrip-
		tions of UN 3077 or UN 3082 are not subject to the Australian
		Code for the Transport of Dangerous Goods (ADG). This ap-
		plies when transported by road or rail in packagings that do
		not incorporate a receptacle exceeding 500 kg(L) or IBCs per
		ADG Special Provision AU01.

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 carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.
Product Registration Number	: APVMA Approval No. 66380



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SECTION 16. OTHER INFORMATION

Revision Date : 09.08.2021 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

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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