

Image: Product name       :       MERIDAN 25 WG         Design code       :       A9584C         Image: Manufacturer or supplier's USE       Syngenta Asia Pacific Pte. Ltd         Company       :       Syngenta Asia Pacific Pte. Ltd         Address       :       No. 1 HarbourFront Avenue, #03-03 Keppel Bay Tower Singapore 098632         Telephone       :       :         Emergency telephone number       :       :         :       :       :         :       :       :         :       :       :         :       :       :         :       :       :         :       :       :         :       :       :         :       :       :         :       :       :         :       :       :         :       :       :         :       :       :         :       :       :         :       :       :         :       :       :         :       :       :	Version Revision Date: 1.0 12/15/2022	SDS Number: S00006856792	This version replaces all previous versions.
Design code:A9584CManufacturer or supplier's details Company:Syngenta Asia Pacific Pte. LtdAddress:No. 1 HarbourFront Avenue, #03-03 Keppel Bay Tower Singapore 098632Telephone:+65 6333 6400	1. PRODUCT AND COMPA	( IDENTIFICATION	
Manufacturer or supplier's detailsCompany: Syngenta Asia Pacific Pte. LtdAddress: No. 1 HarbourFront Avenue, #03-03 Keppel Bay Tower Singapore 098632Telephone: +65 6333 6400	Product name	: MERIDAN 25	5 WG
Company:Syngenta Asia Pacific Pte. LtdAddress:No. 1 HarbourFront Avenue, #03-03 Keppel Bay Tower Singapore 098632Telephone:+65 6333 6400	Design code	: A9584C	
Address:No. 1 HarbourFront Avenue, #03-03 Keppel Bay Tower Singapore 098632Telephone:+65 6333 6400			a Pacific Pte I td
		: No. 1 Harbour	rFront Avenue, #03-03 Keppel Bay Tower
Emergency telephone number : +60 376 283 812	Telephone	: +65 6333 640	00
	Emergency telephone r	nber : +60 376 283	812
Telefax : +65 6338 1256	Telefax	: +65 6338 125	56
Recommended use of the chemical and restrictions on use			
Recommended use : Insecticide	Recommended use	: Insecticide	

### 2. HAZARDS IDENTIFICATION

GHS Classification Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements		
Hazard pictograms	:	¥2
Signal word	:	Warning
Hazard statements	:	H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	<b>Response:</b> P391 Collect spillage.
		<b>Disposal:</b> P501 Dispose of contents/ container to an approved waste disposal plant.



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#### Other hazards which do not result in classification

May form combustible dust concentrations in air.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
starch	9005-25-8	>= 50 -< 70
thiamethoxam (ISO)	153719-23-4	>= 25 -< 30
lignosulfonic acid, ethoxylated, sodium salts	68611-14-3	>= 1 -< 10
silica	61790-53-2	>= 1 -< 10
sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	>= 3 -< 10
Alcohols, C12-14	80206-82-2	>= 0.1 -< 0.25

### 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.
If inhaled	:	Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respira- tion. Keep patient warm and at rest. Call a physician or poison control centre immediately.
In case of skin contact	:	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 delayed	:	Nonspecific No symptoms known or expected.
Notes to physician	:	There is no specific antidote available. Treat symptomatically.

#### 5. FIREFIGHTING MEASURES



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Suitat	ble extinguishing media	:	Use water spra bon dioxide.	nedia - small fires y, alcohol-resistant foam, dry chemical or car- nedia - large fires nt foam
Unsui media	table extinguishing	:	Do not use a so fire.	lid water stream as it may scatter and spread
Speci fightin	fic hazards during fire- g	:	will produce de ucts of combus	contains combustible organic components, fire nse black smoke containing hazardous prod- tion (see section 10). composition products may be a hazard to
Speci ods	fic extinguishing meth-	:	courses.	n-off from fire fighting to enter drains or water ntainers exposed to fire with water spray.
	al protective equipment afighters	:	Wear full protec paratus.	tive clothing and self-contained breathing ap-

Personal precautions, protec- tive equipment and emer- gency procedures	:	Refer to protective measures listed in sections 7 and 8. Avoid dust formation.
Environmental precautions	:	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, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for dis- posal according to local regulations (see section 13). Do not create a powder cloud by using a brush or compressed air. Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.

### 7. HANDLING AND STORAGE

Advice on safe handling	:	This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammabil- ity characteristics of this material. The flammability character- istics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flamma- ble solvents
		ble solvents.



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Cond	itions for safe storage	When using do For personal pro : Keep containers ventilated place Keep out of the	ith skin and eyes. not eat, drink or smoke. otection see section 8. tightly closed in a dry, cool and well- reach of children. food, drink and animal feedingstuffs.
	er information on stor- stability		chemically stable for at least 2 years when ginal unopened sales container at ambient

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
starch	9005-25-8	PEL (long term)	10 mg/m3	SG OEL
		TWA	10 mg/m3	ACGIH
thiamethoxam (ISO)	153719-23-4	TWA	5 mg/m3	Syngenta
silica	61790-53-2	PEL (long term)	10 mg/m3	SG OEL
Engineering measures	: Containment	and/or segrega	tion is the most reliabl	e technical

ering measures	:	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	:	No personal respiratory protective equipment normally re- quired. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hand protection		
Material Break through time Glove thickness	:	Nitrile rubber > 480 min 0.5 mm
Remarks	:	Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality



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			Please observe th breakthrough time gloves. Also take i tions under which cuts, abrasion, and depends amongst and the type of glo each case. Gloves	e instructions which are pr into considera the product is d the contact other things we and there should be di	ne producer to the other. s regarding permeability and rovided by the supplier of the ation the specific local condi- s used, such as the danger of time. The break through time on the material, the thickness fore has to be measured for liscarded and replaced if there or chemical breakthrough.
Eye	protection	:	No special protect	ive equipmen	it required.
Skii	n and body protection	:	tration and amount cific work-place.	t of dangerou contaminate te:	tion to its type, to the concen- is substances, and to the spe- ed clothing before re-use.
Pro	tective measures	:	over the use of per	rsonal protectorsonal protectors	should always have priority tive equipment. ctive equipment, seek appro-

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	granules
Colour	:	beige to brown
Odour	:	musty
Odour Threshold	:	No data available
рН	:	7 - 11 Concentration: 1 % w/v
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form combustible dust concentrations in air.



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<b>.</b> .			F (100.00)					
Burnir	ng number	:	5 (100 °C)					
			2 (20 °C)					
	explosion limit / Upper ability limit	:	No data available					
	explosion limit / Lower ability limit	:	No data available					
Vapou	ur pressure	:	No data available					
Relativ	ve vapour density	:	No data available					
Densi	ty	:	No data available					
Bulk c	density	:	0.42 - 0.52 g/cm3	5				
	ility(ies) ater solubility	:	No data available					
So	lubility in other solvents	:	not soluble					
	on coefficient: n- pl/water	:	No data available					
Auto-i	gnition temperature	:	> 120 °C					
Deco	mposition temperature	:	No data available	)				
	num ignition temperature	:	400 °C					
Visco: Vis	sity scosity, dynamic	:	No data available					
Vis	scosity, kinematic	:	No data available					
Explo	sive properties	:	Not explosive					
Oxidiz	ring properties	:	The substance or	mixture	is no	ot classifie	ed as oxidi	izing.
Self-h	eating substances	:	The substance or	mixture	is no	ot classifie	ed as self	heating.
Surfac	ce tension	:	46.0 - 47.6 mN/m	, 20 °C				
Minim	um ignition energy	:	30 - 100 mJ					
Partic	le size	:	No data available					
10. STABI	LITY AND REACTIVITY							
React	ivity	:	None reasonably	foreseea	ble.			
Chem	ical stability	:	Stable under norr	nal condi	tions	8.		
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Possi tions	bility of hazardous reac-	:	Stable at normal ambient temperature and pressure. Hazardous polymerisation does not occur. At elevated temperatures it will undergo rapid, gas evolving thermal decomposition. No dangerous reaction known under conditions of normal u
Condi	tions to avoid	:	No decomposition if used as directed.
Incom	patible materials	:	None known.
Hazaı produ	dous decomposition cts	:	Combustion or thermal decomposition will evolve toxic and irritant vapours.
Hazaı produ	dous decomposition cts	:	No hazardous decomposition products are known.
	OLOGICAL INFORMAT	ION	
Inform expos	ation on likely routes of ure	:	Ingestion Inhalation Skin contact Eye contact
Acute	toxicity		
<u>Prod</u>	uct:		
Acute	oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat, male and female): > 5.29 g/m3 Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute	dermal toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
<u>Com</u>	oonents:		
thiam	ethoxam (ISO):		
Acute	oral toxicity	:	LD50 (Rat, male and female): 1,563 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat, male and female): > 3.72 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute	dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after



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_		single ingestion.
Skin	corrosion/irritation	
<u>Produ</u>	<u>uct:</u>	
Speci		: Rabbit
Resul	t	: No skin irritation
<u>Comp</u>	oonents:	
thiam	ethoxam (ISO):	
Speci		: Rabbit
Resul	t	: No skin irritation
ligno	sulfonic acid, ethox	ylated, sodium salts:
Resul	t	: Irritating to skin.
sulfur	ic acid, mono-C12-	14-alkyl esters, sodium salts:
Resul		: Irritating to skin.
	ols, C12-14:	
Resul	t	: Skin irritation
Serio	us eye damage/eye	eirritation
<u>Produ</u>	<u>uct:</u>	
Speci		: Rabbit
Resul	t	: No eye irritation
<u>Comp</u>	oonents:	
thiam	ethoxam (ISO):	
Speci		: Rabbit
Resul	t	: No eye irritation
lignos	sulfonic acid, ethox	ylated, sodium salts:
Resul	t	: Eye irritation
sulfur	ic acid mono-C12-	14-alkyl esters, sodium salts:
Resul		: Risk of serious damage to eyes.
1.0001		
Respi	ratory or skin sens	itisation
<u>Produ</u>		
Test 7		: Maximisation Test
	es	: Guinea pig
Speci Resul		: Did not cause sensitisation on laboratory animals.



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<u>Comp</u>	oonents:			
thiam	ethoxam (ISO):			
Specie Result		:	Guinea pig Did not cause se	ensitisation on laboratory animals.
Germ	cell mutagenicity			
<u>Comp</u>	oonents:			
thiam	ethoxam (ISO):			
	cell mutagenicity - ssment	:	Animal testing d	id not show any mutagenic effects.
Carci	nogenicity			
<u>Comp</u>	oonents:			
	ethoxam (ISO): nogenicity - Assess-	:	Weight of evider cinogen	ce does not support classification as a car-
Repro	oductive toxicity			
<u>Comp</u>	oonents:			
thiam	ethoxam (ISO):			
Repro sessm	ductive toxicity - As- nent	:	Weight of evider ductive toxicity	ce does not support classification for repro-
STOT	- single exposure			
<u>Comp</u>	oonents:			
thiam	ethoxam (ISO):			
Asses	ssment	:	The substance organ toxicant, s	or mixture is not classified as specific target single exposure.
lignos	sulfonic acid, ethoxyla	ated	, sodium salts:	
Asses	ssment	:		or mixture is classified as specific target organ exposure, category 3 with respiratory tract
sтот	- repeated exposure			
<u>Comp</u>	oonents:			
thiam	ethoxam (ISO):			
Asses	ssment	:		or mixture is not classified as specific target repeated exposure.



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### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

### Product:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Chironomus riparius (harlequin fly)): 0.154 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)): 25 mg/l End point: Growth rate Exposure time: 72 h

#### Components:

thiamethoxam (ISO):		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
		EC50 (Cloeon sp.): 0.014 mg/l Exposure time: 48 h
		EC50 (Chironomus riparius (harlequin fly)): 0.035 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 81.8 mg/l Exposure time: 72 h
		NOEC (Raphidocelis subcapitata (freshwater green alga)): 81.8 mg/l End point: Growth rate Exposure time: 72 h
M-Factor (Acute aquatic tox- icity)	:	10
Toxicity to fish (Chronic tox- icity)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 28 d Test Type: flow-through test
		NOEC (Oncorhynchus mykiss (rainbow trout)): > 20 mg/l Exposure time: 88 d Test Type: Early-life Stage



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		invertebrates (Chron-	:	NOEC (Daphnia magna (Water flea)): 100 mg/l Exposure time: 21 d
				NOEC (Chironomus riparius (Midge larvae)): 0.01 mg/l Exposure time: 30 d
	M-Facto toxicity)	or (Chronic aquatic	:	10
	Toxicity	to microorganisms	:	EC50 (activated sludge): > 100 mg/l Exposure time: 3 h
	sulfuric	acid, mono-C12-14-a	alky	I esters, sodium salts:
	Ecotox	icology Assessment		
	Chronic	aquatic toxicity	:	Harmful to aquatic life with long lasting effects.
	Alcoho	ls, C12-14:		
	Ecotox	icology Assessment		
	Acute a	quatic toxicity	:	Very toxic to aquatic life.
	Persiste	ence and degradabil	ity	
	<u>Compo</u>	nents:		
		<b>thoxam (ISO):</b> adability	:	Result: Not readily biodegradable.
	Stability	in water	:	Degradation half life: 11 d Remarks: Product is not persistent.
	silica:			
	Biodegr	adability	:	Result: Not readily biodegradable.
	Bioacc	umulative potential		
	<u>Compo</u>	nents:		
		<b>thoxam (ISO):</b> ımulation	:	Remarks: Low bioaccumulation potential.
	Partitior octanol/	n coefficient: n- /water	:	log Pow: -0.13 (25 °C)
	Mobilit	y in soil		
	<u>Compo</u>	nents:		
		thoxam (ISO): tion among environ-	:	Remarks: Moderately mobile in soils



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menta	al compartments		
Stabili	ity in soil	Pe	sipation time: 51 d centage dissipation: 50 % (DT50) narks: Product is not persistent.
Other	adverse effects		
<u>Comp</u>	oonents:		
Result	ethoxam (ISO): ts of PBT and vPvB sment	lati	s substance is not considered to be persistent, bioaccum ng and toxic (PBT). This substance is not considered to b v persistent and very bioaccumulating (vPvB).
silica	:		
	ts of PBT and vPvB sment	lati	s substance is not considered to be persistent, bioaccum ng and toxic (PBT). This substance is not considered to b v persistent and very bioaccumulating (vPvB).
sulfur	ic acid, mono-C12-14	-alkyl es	ters, sodium salts:
	ts of PBT and vPvB sment	lati	s substance is not considered to be persistent, bioaccum ng and toxic (PBT). This substance is not considered to b v persistent and very bioaccumulating (vPvB).

#### **13. DISPOSAL CONSIDERATIONS**

Disposal methods		
Waste from residues	:	Do not contaminate ponds, waterways or ditches with chemi- cal or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incinera- tion. If recycling is not practicable, dispose of in compliance with local regulations.
Contaminated packaging	:	Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

### International Regulations

UN	RTDG
UN	numbe

UN number	:	UN 3077	
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	'
		(THIAMETHOXAM)	
		· · ·	



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Class Pack Labe	ing group	: 9 : III : 9	
UN/I	<b>-DGR</b> D No. er shipping name	<ul> <li>: UN 3077</li> <li>: Environmentally hazardous substance, solid, n.o.s. (THIAMETHOXAM)</li> </ul>	
Labe Pack	ing group ls ing instruction (cargo	: 9 : III : Miscellaneous : 956	
ger a	ing instruction (passen- ircraft) onmentally hazardous	: 956 : yes	
<b>IMDC</b> UN n	<b>3-Code</b> umber er shipping name	<ul> <li>UN 3077</li> <li>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (THIAMETHOXAM)</li> </ul>	
Labe EmS	ing group	: 9 : III : 9 : F-A, S-F : yes	

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

Not applicable for product as supplied.

#### 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.

### 15. REGULATORY INFORMATION

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

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 Environmental Protection and Management (Hazardous Substances) Regulations Eira Sofatu (Dataslaum and Elammable Materials)

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

### **16. OTHER INFORMATION**



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Revis	ion Date	:	12/15/2022		
Date	format	:	dd.mm.yyyy		
Full t	Full text of other abbreviations				
ACG SG C		:	Singapore. Workp	shold Limit Values (TLV) lace Safety and Health (General Provisions) t Schedule Permissible Exposure Limits of	
	H / TWA DEL / PEL (long term)	:	8-hour, time-weigl Permissible Expo	nted average sure Level (PEL) Long Term	
Land	AllC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CM Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute				

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.

SG / EN