

according to GB/T 16483 and GB/T 17519

# Ivermectin (2%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
6.0	2024/09/28	10679113-00012	Date of first issue: 2022/05/05

#### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	Ivermectin (2%) Formulation			
Other means of identification	:	Coopers Blowfly and Lice Jetting Fluid (61069)			
Manufacturer or supplier's d	eta	ils			
Company	:	MSD			
Address	:	No. 485 Jing Tai Road Pu Tuo District - Shanghai - China 200331			
Telephone	:	+1-908-740-4000			
Emergency telephone number	:	86-571-87268110			
E-mail address	:	EHSDATASTEWARD@msd.com			
Recommended use of the chemical and restrictions on use					
Recommended use Restrictions on use	:	Veterinary product Not applicable			

#### 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

Appearance Colour Odour	:	liquid Clear white to yellow., Straw-coloured No data available	
May be harmful if swallowed. Causes serious eye irritation. May cause damage to organs. M cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life v long lasting effects.			
GHS Classification			
Acute toxicity (Oral)	:	Category 5	
Serious eye damage/eye irri- tation	:	Category 2A	
Specific target organ toxicity - single exposure	:	Category 2	
Specific target organ toxicity - repeated exposure	:	Category 2	
Short-term (acute) aquatic	:	Category 1	



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haza	ard g-term (chronic) aquatic	: Category 1	
haza			
GHS	abel elements		
Haza	ard pictograms		! 坐
Sign	al word	: Warning	▼ ▼
Haza	ard statements	H319 Causes H371 May cau H373 May cau peated exposi	harmful if swallowed. serious eye irritation. ise damage to organs. ise damage to organs through prolonged or re- ire. ic to aquatic life with long lasting effects.
Prec	autionary statements	P264 Wash sk P270 Do not e P273 Avoid re	reathe mist or vapours. kin thoroughly after handling. eat, drink or smoke when using this product. lease to the environment. re protection/ face protection.
		Response:	- F
		P305 + P351 - for several mir easy to do. Co P308 + P311 I CENTER/ doc	f eye irritation persists: Get medical advice/ at-
		<b>Storage:</b> P405 Store loo	cked up.
		Disposal:	of contents/ container to an approved waste

### Physical and chemical hazards

Not classified based on available information.

#### Health hazards

May be harmful if swallowed. Causes serious eye irritation. May cause damage to organs. May cause damage to organs through prolonged or repeated exposure.



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#### **Environmental hazards**

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

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

None known.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Polyalkylene oxide derivative of a synthetic alcohol	103818-93-5	>= 30 -< 50
Ivermectin	70288-86-7	>= 1 -< 2.5

#### 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
		If easy to do, remove contact lens, if worn. Get medical attention.
If swallowed	:	If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention.
		Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms	:	May be harmful if swallowed.
and effects, both acute and delayed		Causes serious eye irritation. May cause damage to organs.
		May cause damage to organs through prolonged or repeated exposure.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

#### **5. FIREFIGHTING MEASURES**

Suitable extinguishing media :

Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical



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	Unsuita media	ble extinguishing	:	None known.	
	Specific fighting	c hazards during fire-	:	Exposure to comb	oustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Metal oxides Oxides of phosph	orus
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special for firef	protective equipment ghters	:	In the event of fire Use personal prof	e, wear self-contained breathing apparatus. ective equipment.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
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 cannot be contained.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

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#### 7. HANDLING AND STORAGE

Handling	
Technical measures	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling	Use only with adequate ventilation. Do not breathe mist or vapours. Do not swallow. Do not get in 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 Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Avoidance of contact	Oxidizing agents
Storage	
Conditions for safe storage	Keep in properly labelled containers. Store locked up. Store in accordance with the particular national regulations.
Materials to avoid	Do not store with the following product types: Strong oxidizing agents
Packaging material	Unsuitable material: None known.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Ivermectin	70288-86-7	TWA	30 µg/m3 (OEB 3)	Internal
	Further information: Skin			
		Wipe limit	300 µg/100 cm2	Internal

Engineering measures

 Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless 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 containment devices).
Minimize open handling.

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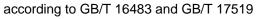
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#### Personal protective equipment

Respiratory protection Filter type Eye/face protection	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type 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.
Skin and body protection	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.
Hand protection	
Material	Chemical-resistant gloves
Remarks : Hygiene measures :	Consider double gloving. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work- ing place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. 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.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	Clear white to yellow., Straw-coloured
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available





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Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties		The substance or mixture is not classified as oxidizing.
	•	Ū.
Molecular weight	:	No data available
Particle characteristics Particle size	:	Not applicable

#### **10. STABILITY AND REACTIVITY**

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	Can react with strong oxidizing agents.
tions		
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
		5 5



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Haza produ	rdous decomposition lcts	:	No hazardous	decomposition products are known.
1. TOXIC	OLOGICAL INFORMA		I	
Expo	sure routes	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity			
	be harmful if swallowed	1.		
Prod			A	
Acute	e oral toxicity	:	Method: Calcu	stimate: 2,500 mg/kg ation method
Acute	e dermal toxicity	:	Acute toxicity e Method: Calcu	estimate: > 5,000 mg/kg ation method
Com	ponents:			
lvern	nectin:			
Acute	e oral toxicity	:	LD50 (Rat): 50	
			LD50 (Mouse):	25 mg/kg
			Symptoms: Vo	): > 24 mg/kg : Central nervous system miting, Dilatation of the pupil nortality observed at this dose.
Acute	inhalation toxicity	:	LC50 (Rat): 5.7 Exposure time: Test atmosphe	1 h _
Acute	e dermal toxicity	:	LD50 (Rabbit):	406 mg/kg
			LD50 (Rat): > 6	660 mg/kg
	corrosion/irritation lassified based on avai	lable	information.	
Com	ponents:			
Polya	alkylene oxide derivat	ive of	f a synthetic al	cohol:
Spec Meth	ies	:	-	numan epidermis (RhE)
Resu	It	:	No skin irritatio	n



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lvern	nectin:			
Spec Resu		:	Rabbit No skin irritation	
Resu	IL	•	NU SKIT ITTIALIUT	
Serio	us eye damage/eye	irritati	ion	
Caus	es serious eye irritatio	on.		
Com	ponents:			
Polya	alkylene oxide deriva	ative c	of a synthetic alc	ohol:
Spec		:	Bovine cornea	
Meth	bc	:	OECD Test Gui	deline 437
Resu	lt	: Irritation to eyes, reversing within 21 days		
lverm	nectin:			
Spec		:	Rabbit	
Resu	lt	:	Mild eye irritatio	n
Resp	iratory or skin sens	itisatio	on	
-	sensitisation lassified based on av	ailahla	information	
			information.	
-	iratory sensitisation lassified based on av		information.	
<u>Com</u>	ponents:			
lvern	nectin:			
	sure routes	:	Dermal	
Spec Resu		:	Humans	skin sensitisation.

#### Germ cell mutagenicity

Not classified based on available information.

#### Components:

Ivermectin:	
Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Test system: human diploid fibroblasts Result: negative
	Test Type: Mouse Lymphoma Result: negative



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#### Carcinogenicity

Not classified based on available information.

#### Components:

#### Ivermectin:

Species	: Rat
Application Route	: Oral
NOAEL	: 1.5 mg/kg body weight
Result	: negative
Species Application Route NOAEL Result Remarks	: Based on data from similar materials
Species Application Route NOAEL Result Remarks	: Mouse
Application Route	: Oral
NOAEL	: 2.0 mg/kg body weight
Result	: negative
Remarks	: Based on data from similar materials

### **Reproductive toxicity**

Not classified based on available information.

#### Components:

#### Ivermectin:

Effects on fertility	: Test Type: Fertility Species: Rat Application Route: Oral Fertility: NOAEL: 0.6 mg/kg body weight Result: Animal testing did not show any effects on fertility.
Effects on foetal develop- ment	: Test Type: Development Species: Mouse Application Route: Oral Developmental Toxicity: NOAEL: 0.2 mg/kg body weight Result: Teratogenic effects, Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses
	Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 0.4 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off- spring were detected. Remarks: The mechanism or mode of action may not be rele- vant in humans.
	Test Type: Development Species: Rabbit Application Route: Oral



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			atogenic effects, Embryotoxic effects and adverse the offspring were detected only at high maternally		
	<b>F - single exposure</b> cause damage to orga	ins.			
-	ponents:				
	nectin:				
Targe	et Organs ssment		vous system mage to organs.		
May o <u>Com</u> Ivern Targe	<b>Γ - repeated exposur</b> cause damage to orga <b>ponents:</b> nectin: et Organs ssment	ins through prolon : Central ne	ged or repeated exposure. vous system mage to organs through prolonged or repeated		
-	eated dose toxicity ponents:				
lvern	nectin:				
Expo	EL EL cation Route sure time et Organs		vous system of the pupil, Tremors, Lack of coordination, anorexia		
Spec NOAI Applie Expo Rema	EL cation Route sure time	: Monkey : 1.2 mg/kg : Oral : 2 Weeks : No signific	ant adverse effects were reported		
Expo	EL	: Rat : 0.4 mg/kg : 0.8 mg/kg : Oral : 3 Months : spleen, Bo	: 0.4 mg/kg : 0.8 mg/kg : Oral		



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#### Aspiration toxicity

Not classified based on available information.

Experience with human exposure

#### Components:

Ivermectin:	
Wernieeun.	

Skin contact	: Remarks: Can be absorbed through skin.
Eye contact	: Remarks: May irritate eyes.
Ingestion	: Symptoms: Drowsiness, Dilatation of the pupil, Tremors, Vom- iting, anorexia, Lack of coordination

#### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

#### Components:

#### Polyalkylene oxide derivative of a synthetic alcohol:

Toxicity to fish	:	LC50 : > 1 - 10 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 3.2 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Ivermectin:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.003 mg/l Exposure time: 96 h
		LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.0048 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.000025 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 9.1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 9.1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic tox-	:	10,000
icity) M-Factor (Chronic aquatic	:	10,000



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toxic	ity)				
Pers	istence and degradat	oility			
<u>Com</u>	ponents:				
Poly	alkylene oxide deriva	tive o	f a synthetic alc	ohol:	
Biodegradability :		:	Result: Readily biodegradable. Remarks: Based on data from similar materials		
lvern	nectin:				
Biodegradability		:	Result: Not readily biodegradable. Biodegradation: 50 % Exposure time: 240 d		
Bioa	ccumulative potentia	I			
Com	ponents:				
lvern	nectin:				
Bioad	ccumulation	:	Bioconcentration	n factor (BCF): 74	
	tion coefficient: n- nol/water	: log Pow: 3.22			
	i <b>lity in soil</b> ata available				
	<b>r adverse effects</b> ata available				
13. DISPO	DSAL CONSIDERATIO	ONS			
-	osal methods		De net d'an est		
vvast	e from residues	:		of waste into sewer. cordance with local regulations.	
Contaminated packaging :		:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal.		

#### 14. TRANSPORT INFORMATION

#### International Regulations

UNRTDG		
UN number	: UN 3082	
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, L	IQUID,
	N.O.S.	
	(Ivermectin)	
Class	: 9	
Packing group	: III	

If not otherwise specified: Dispose of as unused product.



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Labels		:	9	
Enviro	nmentally hazardous	•	yes	
<b>IATA-</b> I UN/ID Proper		:	UN 3082 Environmentally I (Ivermectin)	nazardous substance, liquid, n.o.s.
Labels	g instruction (cargo	:	9 III Miscellaneous 964	
Packin ger air	g instruction (passen- craft)	:	964	
Enviro	nmentally hazardous	:	yes	
<b>IMDG-</b> UN nu Propei		:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Labels EmS C		:	(Ivermectin) 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.

#### **National Regulations**

#### GB 6944/12268 UN number : UN 3082 : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, Proper shipping name N.O.S. (Ivermectin) Class 9 : Packing group Ш Labels 9 Marine pollutant ÷ no

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 15. REGULATORY INFORMATION

#### National regulatory information

Law on the Prevention and Control of Occupational Diseases



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Regi	ulations on Safety Man	agement of Hazardou	ıs Chen	nicals				
Cata	logue of Hazardous Che	micals	:	This product is not listed in the cata- logue of hazardous chemicals, but it meets the definition of hazardous chemicals and its principles of de- termination.				
Ident 1821	ification of Major Hazard 8)	l Installations for Haza	rdous C	hemicals (GB : Not listed				
Haza SAW	ardous Chemicals for Pri /S	ority Management und	er :	Not listed				
II Rea	ulations on Labour Pro	tection in Workplace	s whore	Toxic Substances are Used				
	Regulations on Labour Protection in Workplaces where Toxic Substances are Used       Catalogue of Highly Toxic Chemicals     : Not listed							
	ulation of Environment Export of Toxic Chemi		e First	Import of Chemicals and the Import				
	a Severely Restricted To Export	oxic Chemicals for Imp	ort :	Not listed				
Regi	ulation on the Adminis	tration of Precursor C	Chemica	als				
Cata	logue and Classification	of Precursor Chemica	ls :	Not listed				
Yang	gtze River Protection L	aw						
This	product does not contair	n any dangerous chem	icals pro	phibited for inland river transport.				
The	components of this pro	oduct are reported in	the foll	owing inventories:				
AICS	6	: not determined						
DSL		: not determined						
IECS	SC	: not determined						
16. OTHE	R INFORMATION							
Revis	sion Date	: 2024/09/28						

#### Further information

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format	:	yyyy/mm/dd
	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,





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#### 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 - Verv Persistent and Verv Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

#### Disclaimer

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.

CN/EN