

2.0 10/07/2021 S00055824539	Version 2.0	Revision Date: 10/07/2021	SDS Number: S00055824539	This version replaces all previous versions
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SECTION 1. IDENTIFICATION

Product name	:	BRAVO ZNC
Design code	:	A7867G
Product Registration number	:	33515
Other means of identification	:	No data available

Manufacturer or supplier's details

Company name of supplier Address	:	Syngenta Canada Inc. 140 Research Lane, Research Park Guelph ON N1G 4Z3 Canada
Telephone Telefax	:	1-87-SYNGENTA (1-877-964-3682) 1-519-823-0504
E-mail address	:	
Emergency telephone num- ber	:	1-800-327-8633 (FAST MED)
Recommended use of the cl	hem	nical and restrictions on use

Recommended use : Fungicide

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Acute toxicity (Inhalation)	:	Category 4
Eye irritation	:	Category 2A
Skin sensitisation	:	Category 1
Carcinogenicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system)
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H317 May cause an allergic skin reaction.



	O ZNC		
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			r Innaled. se respiratory irritation. d of causing cancer.
Preca	utionary statements	Prevention:	
		P202 Do not ha and understood P261 Avoid bre P264 Wash ski P271 Use only P272 Contamin the workplace.	athing mist or vapours. n thoroughly after handling. outdoors or in a well-ventilated area. lated work clothing should not be allowed out o tective gloves/ protective clothing/ eye protecti
		Response:	
		P304 + P340 + and keep comfor doctor if you fee P305 + P351 + for several minu to do. Continue P308 + P313 IF attention. P333 + P313 If attention. P337 + P313 If tion. P362 + P364 Tar reuse.	P338 IF IN EYES: Rinse cautiously with wate utes. Remove contact lenses, if present and ea
		Storage:	
		P403 + P233 S tightly closed. P405 Store lock	tore in a well-ventilated place. Keep container ked up.
		Disposal:	
		P501 Dispose o posal plant.	of contents/ container to an approved waste di
Other	hazards		
None	known.		

Substance / Mixture : Mixture

Components

	Common Name/Synonym	CAS-No.	Concentration (% w/w)
chlorothalonil (ISO)	chlorothalonil	1897-45-6	38.4911



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	(ISO)		
zinc oxide	zinc oxide	1314-13-2	>= 5 - < 10 *
propane-1,2-diol	propane-1,2-diol	57-55-6	>= 1 - < 5 *

* Actual concentration or concentration range is withheld as a trade secret

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.
If 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 delayed	:	Nonspecific No symptoms known or expected.
Notes to physician	:	There is no specific antidote available. Treat symptomatically.

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 Specific hazards during fire- fighting	:	Do not use a solid water stream as it may scatter and spread fire. 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.
Further information	:	Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.



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Special protective equipment : Wear full protective clothing and self-contained breathing apfor firefighters paratus.

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 / 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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
chlorothalonil (ISO)	1897-45-6	TWA	0.1 mg/m3	Syngenta
zinc oxide	1314-13-2	TWA (Res-	2 mg/m3	CA AB OEL
		pirable)		
		STEL (Res-	10 mg/m3	CA AB OEL
		pirable)		
		TWA (Res- pirable)	2 mg/m3	CA BC OEL
		STEL (Res- pirable)	10 mg/m3	CA BC OEL
		TWAEV (respirable dust)	2 mg/m3	CA QC OEL



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		STEV (res- pirable dust)	10 mg/m3	CA QC OEL
		TWA (Res- pirable par- ticulate mat- ter)	2 mg/m3	ACGIH
		STEL (Res- pirable par- ticulate mat- ter)	10 mg/m3	ACGIH
propane-1,2-diol	57-55-6	TWA (Va- pour and aerosols)	50 ppm 155 mg/m3	CA ON OEL
		TWA (aero- sol)	10 mg/m3	CA ON OEL
Engineering measures	CONTROL FOR THE M PACKAGIN APPLICAT	S/PERSONAL PR MANUFACTURE, IG OF THE PROD	IENDATIONS FOR OTECTION ARE I FORMULATION A DUCT. FOR COMM N-FARM APPLICA LABEL.	INTENDED IND MERCIAL

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

	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Suitable respiratory equipment: Respirator with a half face mask The filter class for the respirator must be suitable for the max- imum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when han- dling the product. If this concentration is exceeded, self- contained breathing apparatus must be used.
Hand protection	
Remarks :	Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local condi-



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Skin ar	otection nd body protection tive measures	 cuts, abrasion, ar depends amongs and the type of g each case. Glove is any indication of Tightly fitting safe Always wear eye eye contact with Choose body pro tration and amou cific work-place. Remove and was Wear as appropri Impervious clothi The use of techni over the use of point 	protection when the potential for inadvertent the product cannot be excluded. tection in relation to its type, to the concen- nt of dangerous substances, and to the spe- sh contaminated clothing before re-use. tate: ng ical measures should always have priority ersonal protective equipment. bersonal protective equipment, seek appro-

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension, viscous
Colour	:	grey
Odour	:	Weak, uncharacteristic
Odour Threshold	:	No data available
рН	:	7.5 - 9.5
Melting point/range	:	-5 °C
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
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

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I	Density	,	:	1.299 g/cm3	
:	Solubili Wat	ty(ies) er solubility	:	No data available	
	Solu	bility in other solvents	:	dispersible Solvent: Water	
	Partition octanol	n coefficient: n-	:	No data available	
		nition temperature	:	No data available	
I	Decom	position temperature	:	No data available	
,	Viscosi Visc	ty osity, dynamic	:	No data available	
	Visc	osity, kinematic	:	No data available	
I	Explosi	ve properties	:	Not explosive	
(Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
I	Particle	size	:	No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	None reasonably foreseeable. Stable under normal conditions. No dangerous reaction known under conditions of normal use.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	No decomposition if used as directed. None known. No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact Eye contact Ingestion Inhalation Skin contact Eye contact

Acute toxicity

Product: Acute oral toxicity

: LD50 (Rat, male and female): 4,200 mg/kg



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		Remarks: Based on data from similar material	S
Acute	inhalation toxicity	 LC50 (Rat, male and female): > 1.96 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The component/mixture is mode short term inhalation. Remarks: Based on data from similar material 	-
Acute	dermal toxicity	: LD50 (Rat, male and female): > 20,000 mg/kg Remarks: Based on data from similar material	
<u>Comp</u>	onents:		
chloro	othalonil (ISO):		
Acute	oral toxicity	: LD50 (Rat, male and female): > 5,000 mg/kg	
Acute	inhalation toxicity	: LC50 (Rat, male and female): 0.10 mg/l Exposure time: 4 h Test atmosphere: dust/mist	
Acute	dermal toxicity	: LD50 (Rat, male and female): > 5,000 mg/kg	
Skin c	orrosion/irritation		
<u>Produ</u>	<u>ct:</u>		
Specie		: Rabbit	
Result Remar		No skin irritationBased on data from similar materials	
<u>Comp</u>	onents:		
chloro	othalonil (ISO):		
Specie		: Rabbit	
Result		: No skin irritation	
Seriou	ıs eye damage/eye i	tation	
<u>Produ</u>			
Specie Result		: Rabbit : Irritation to eyes, reversing within 21 days	
Remar		: Based on data from similar materials	
<u>Comp</u>	onents:		
chloro	othalonil (ISO):		
Specie		: Rabbit	
Result		: Risk of serious damage to eyes.	



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Respiratory or skin sensitisation

Product: Test Type Species Result Remarks	:	Buehler Test Guinea pig May cause sensitisation by skin contact. Based on data from similar materials
Components:		
chlorothalonil (ISO):		
Species Result	:	Guinea pig May cause sensitisation by skin contact.
Remarks	:	In very rare cases may cause an allergic response of the res- piratory system.
Germ cell mutagenicity		
Components:		
chlorothalonil (ISO): Germ cell mutagenicity - Assessment	:	Animal testing did not show any mutagenic effects.
Carcinogenicity		
Components:		
chlorothalonil (ISO): Carcinogenicity - Assess- ment	:	Chlorothalonil causes kidney tumours in rats and mice via a non-gentoxic mode of action secondary to target organ toxici- ty. ,Limited evidence of carcinogenicity in animal studies
Reproductive toxicity		
Components:		
chlorothalonil (ISO): Reproductive toxicity - As- sessment	:	No toxicity to reproduction
STOT - single exposure		
Components:		
chlorothalonil (ISO):		
Assessment	:	The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.



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_			
-	ted dose toxicity		
	onents:		
Remar	othalonil (ISO): ˈks	:	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
SECTION 1	12. ECOLOGICAL INFO	DRN	ΜΑΤΙΟΝ
Ecoto	xicity		
<u>Produ</u>	<u>ct:</u>		
Toxicit	y to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.195 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
	y to daphnia and other c invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.18 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
Toxicit plants	y to algae/aquatic	:	ErC50 (Desmodesmus subspicatus (green algae)): 0.52 mg/l Exposure time: 72 h Remarks: Based on data from similar materials
<u>Comp</u>	onents:		
chloro	othalonil (ISO):		
Toxicit	y to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.039 mg/l Exposure time: 96 h
	y to daphnia and other c invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.07 mg/l Exposure time: 48 h
Toxicit plants	y to algae/aquatic	:	ErC50 (Navicula pelliculosa (Freshwater diatom)): 0.02 mg/l Exposure time: 96 h
			NOEC (Navicula pelliculosa (Freshwater diatom)): 0.0035 mg End point: Growth rate Exposure time: 96 h
			ErC50 (Skeletonema costatum (marine diatom)): 0.017 mg/l Exposure time: 96 h
			NOEC (Skeletonema costatum (marine diatom)): 0.012 mg/l End point: Growth rate Exposure time: 96 h
M-Facticity)	tor (Acute aquatic tox-	:	10
	y to fish (Chronic tox-	:	NOEC (Pimephales promelas (fathead minnow)): 0.003 mg/l Exposure time: 297 d



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Toxicity to daphnia and aquatic invertebrates (0		EC (Daphnia magna (Water flea)): 0.035 mg/l oosure time: 21 d
ic toxicity)		EC (Americamysis): 0.00083 mg/l oosure time: 28 d
M-Factor (Chronic aqua toxicity)	tic : 100	
zinc oxide:		
Ecotoxicology Asses		y toxic to aquatic life.
Chronic aquatic toxicity	: Very	y toxic to aquatic life with long lasting effects.
Persistence and degr	dability	
Components:		
chlorothalonil (ISO): Stability in water	•	gradation half life: < 5 d (20 °C) narks: Product is not persistent.
Bioaccumulative pote	ntial	
Components:		
chlorothalonil (ISO): Bioaccumulation	: Rem	narks: Low bioaccumulation potential.
Partition coefficient: n- octanol/water	: log F	Pow: 2.94 (25 °C)
Mobility in soil		
Components:		
chlorothalonil (ISO):		
Distribution among env	ron- : Rem	narks: Chlorothalonil has low to slight mobility in soil.
mental compartments Stability in soil	Perc	sipation time: 7 d centage dissipation: 50 % (DT50) narks: Product is not persistent.
Other adverse effects		
Components:		
chlorothalonil (ISO):		
Results of PBT and vPr assessment	very	s substance is not considered to be very persistent and / bioaccumulating (vPvB). This substance is not consid- d to be persistent, bioaccumulating and toxic (PBT).



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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: Refer to the product label for specific disposal/recycling infor- mation
	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	: Refer to the product label for specific disposal/recycling infor- mation
	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.

SECTION 14. TRANSPORT INFORMATION

International Regulations

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



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Labels EmS Code Marine pollutant	: 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			
TDG UN number Proper shipping name	: UN 3082 : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLOROTHALONIL)		
Class Packing group Labels ERG Code Marine pollutant Remarks	 9 III 9 171 yes(CHLOROTHALONIL) Class 9 Exemption from Part 3, Documentation, and Part 4, Dangerous Goods Safety Marks, if transported solely on land by road vehicle or railway vehicle. 		

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.

1.45.1. SOR/2008-34

SECTION 15. REGULATORY INFORMATION

Warning, contains the allergen 1,2-benzisothiazolin-3-one

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label: Read the label, authorised under the Pest Control Products Act, prior to using or handling the pest control product

There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

 Warning

 Skull and crossbones

 poison

 Eye irritant

 Potential skin sensitiser

 Canadian PBT Chemicals

 :
 This product contains the following components on the DSL that are classified as Persistent, Bioaccumulative and/or Toxic (PBT) under CEPA: octamethylcyclotetrasiloxane [D4]

 :
 zinc oxide trisodium nitrilotriacetate

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



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On the Canadian DSL nor NDSL. Oxirane, 2-methyl-, polymer with oxirane Canadian lists The following substance(s) is/are subject to a Significant New Activity Notification: chlorothalonil (ISO) SECTION 16. OTHER INFORMATION Full text of other abbreviations ACGIH : USA. ACGIH Threshold Limit Values (TLV) CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (2: OEL)				This version replaces all previous versions
Canadian lists The following substance(s) is/are subject to a Significant New Activity Notification: chlorothalonil (ISO) SECTION 16. OTHER INFORMATION Full text of other abbreviations ACGIH ACGIH : USA. ACGIH Threshold Limit Values (TLV) CA AB OEL Canada. Alberta, Occupational Health and Safety Code (2: OEL)	DSL		on the Canadi	an DSL nor NDSL.
chlorothalonil (ISO) 1897-45-6 ECTION 16. OTHER INFORMATION Full text of other abbreviations ACGIH : USA. ACGIH Threshold Limit Values (TLV) CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (2: OEL)) is/are subject to a Sig	nificant New Activity Notification:
Full text of other abbreviations ACGIH : USA. ACGIH Threshold Limit Values (TLV) CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (2: OEL)	chlore	othalonil (ISO)		1897-45-6
ACGIH : USA. ACGIH Threshold Limit Values (TLV) CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (2: OEL)	ECTION	16. OTHER INFORM	IATION	
CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (2: OEL)				
2: OEL)	Full t	ext of other abbrevi	ations	
CA BC OEL : Canada. British Columbia OEL				Threshold Limit Values (TLV)
	ACGI	IH	: USA. ACGIH : Canada. Albei	

		Canada. Bhush Columbia OEL
CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under
		the Occupational Health and Safety Act.
CA QC OEL	:	Québec. Regulation respecting occupational health and safe-
		ty, Schedule 1, Part 1: Permissible exposure values for air-
		borne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA AB OEL / STEL	:	15-minute occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA BC OEL / STEL	:	short-term exposure limit
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)
CA QC OEL / TWAEV	:	Time-weighted average exposure value
CA QC OEL / STEV	:	Short-term exposure value

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 Develop-



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ment; 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

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

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.

CA / EN