

Version	Revision Date: 20.02.2024	SDS Number:	Date of last issue: 30.09.2023
2.2		10848150-00004	Date of first issue: 09.09.2022

## Section 1: Identification

Product name	:	Levamisole Hydrochloride (8%) Liquid Formulation		
Other means of identification		COOPERS NILVERM LV ORAL WORMER (36152)		
Manufacturer or supplier's d	eta	ils		
Company	:	MSD		
Address	:	33 Whakatiki Street - Private Ba Upper Hutt - New Zealand	g 908	
Telephone	:	0800 800 543		
Emergency telephone number	:	0800 764 766 (0800 POISON) CHEMCALL)	0800 243 622 (0800	
E-mail address	:	EHSDATASTEWARD@msd.cor	n	
Recommended use of the chemical and restrictions on use				
Recommended use Restrictions on use	:	Veterinary product Not applicable		

# Section 2: Hazard identification

GHS Classification Respiratory sensitisation	:	Category 1
Skin sensitisation	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Blood, Testis)
GHS label elements Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing



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P		H373 May caus prolonged or re	aled. ted of damaging the unborn child. se damage to organs (Blood, Testis) through speated exposure if swallowed.
Preca	autionary statements	P202 Do not ha and understood P260 Do not br P272 Contamir the workplace. P280 Wear pro tion/ face prote	eathe mist or vapours. hated work clothing should not be allowed out of tective gloves/ protective clothing/ eye protec-
		P304 + P340 IF keep comfortat P308 + P313 IF attention. P333 + P313 If vice/ attention.	<ul> <li>ON SKIN: Wash with plenty of water.</li> <li>INHALED: Remove person to fresh air and ble for breathing.</li> <li>exposed or concerned: Get medical advice/</li> <li>skin irritation or rash occurs: Get medical ad-</li> <li>experiencing respiratory symptoms: Call a TER/ doctor.</li> </ul>
		<b>Storage:</b> P405 Store loc	ked up.
		Disposal:	of contents/ container to an approved waste

# 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)
levamisole hydrochloride	16595-80-5	>= 2.5 -< 10
Citric acid	77-92-9	>= 1 -< 10
Sodium metabisulphite	7681-57-4	>= 0.1 -< 1

### Section 4: First-aid measures



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Gene	eral advice	:	vice immediately	ccident or if you feel unwell, seek medical ad- /. s persist or in all cases of doubt seek medica		
lf inha	aled	:	If inhaled, remov Get medical atte			
In cas	In case of skin contact		In case of contact, immediately flush skin with soap and plen of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.			
In cas	se of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.			
lf swa	allowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.			
and e	Most important symptoms and effects, both acute and delayed		May cause an a May cause aller ties if inhaled. Suspected of da	llergic skin reaction. gy or asthma symptoms or breathing difficul- maging the unborn child. age to organs through prolonged or repeated		
Prote	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	s to physician	:		tically and supportively.		
Section 5	: Fire-fighting measure	es				
Suita	ble extinguishing media	:	Water spray	t foam		

		Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.



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## Section 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.

## Section 7: Handling and storage

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling	<ul> <li>Use only with adequate ventilation.</li> <li>Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-</li> </ul>
	sessment Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working 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



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Condi	tions for safe storage		ative controls. Iabelled containers.
Materials to avoid			nce with the particular national regulations. the following product types: agents

#### Section 8: Exposure controls/personal protection

	•			
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
levamisole hydrochloride	16595-80-5	TŴA	20 µg/m3 (OEB 3)	Internal
	Further information: Skin			
		Wipe limit	200 µg/100 cm <sup>2</sup>	Internal
Sodium metabisulphite	7681-57-4	WES-TWA	5 mg/m3	NZ OEL
	Further information: Skin sensitiser, Respiratory sensitiser			
		TWA	5 mg/m3	ACGIH

## Components with workplace control parameters

Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con- tainment devices). Minimize open handling.
Personal protective equipment	

### Personal protective equipment

Respiratory protection Filter type Hand 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
Material	:	Chemical-resistant gloves
Remarks Eye protection Skin and body protection		Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. Work uniform or laboratory coat.



rsion	Revision Date: 20.02.2024	-	S Number: 348150-00004	Date of last issue: 30.09.2023 Date of first issue: 09.09.2022
			task being perfor posable suits) to	garments should be used based upon the med (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. degowning techniques to remove potentially othing.
ction 9:	Physical and chemica	l pr	operties	
Appea	arance	:	liquid	
Colou	ır	:	clear	
			yellow	
Odou	r	:	No data availabl	le
Odou	r Threshold	:	No data availabl	le
рΗ		:	No data availabl	le
Meltin	ng point/freezing point	:	No data availabl	e
Initial range	boiling point and boiling	:	No data availabl	le
Flash	point	:	No data availabl	le
Evapo	oration rate	:	No data availabl	le
Flamr	mability (solid, gas)	:	Not applicable	
Flamr	mability (liquids)	:	No data availabl	le
	r explosion limit / Upper nability limit	:	No data availabl	le
	r explosion limit / Lower nability limit	:	No data availabl	le
Vapo	ur pressure	:	No data availabl	le
Relati	ve vapour density	:	No data availabl	le
Relati	ve density	:	No data availabl	le
Densi	ity	:	No data availabl	e
	ility(ies) ater solubility	:	No data availabl	e
Partiti	ion coefficient: n-	:	Not applicable	



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	ol/water gnition temperature	:	No data available	Ð
Decor	nposition temperature	:	No data available	e

Decomposition temperature	•	
Viscosity Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Molecular weight	:	No data available
Particle size	:	Not applicable

# Section 10: Stability and reactivity

-	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
tions Conditions to avoid	:	
Incompatible materials Hazardous decomposition products	:	Oxidizing agents No hazardous decomposition products are known.

# Section 11: Toxicological information

Exposure routes	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Not classified based on avail	able	information.
Product:		
Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Components:		
levamisole hydrochloride:		
Acute oral toxicity	:	LD50 (Rat): 180 mg/kg
		LD50 (Mouse): 223 mg/kg



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			LD50 (Rabbit): 4	58 mg/kg
Acute	inhalation toxicity	:	Remarks: No da	ta available
Acute	e dermal toxicity	:	Remarks: No da	ta available
Citric	acid:			
Acute	oral toxicity	:	LD50 (Mouse): 8	5,400 mg/kg
Acute	e dermal toxicity	:		000 mg/kg Test Guideline 402 e substance or mixture has no acute derm
Sodiu	um metabisulphite:			
Acute	oral toxicity	:	LD50 (Rat): 1,54 Method: OECD	0 mg/kg Test Guideline 401
Acute	inhalation toxicity	:	LC50 (Rat): > 5. Exposure time: 4 Test atmosphere Remarks: Based	↓h ¯
Acute	e dermal toxicity	:		000 mg/kg Test Guideline 402 I on data from similar materials
Skin	corrosion/irritation			
Not cl	assified based on ava	ailable	information.	
<u>Comp</u>	oonents:			
levan	nisole hydrochloride	•:		
Rema	arks	:	No data availabl	e
Citric	acid:			
	es	:	Rabbit	
Speci			OECD Test Guid	
Metho		:	No okin imitation	
•		:	No skin irritation	
Metho Resul		:	No skin irritation	
Metho Resul	t <b>um metabisulphite:</b> It	:	Skin irritation	al or regional regulation.

Not classified based on available information.



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<u>Comp</u>	oonents:			
levan	nisole hydrochloride	:		
Rema	arks	:	No data availabl	le
Citric	acid:			
Speci		:	Rabbit	
Resul		:		, reversing within 21 days
Metho	Da	÷	OECD Test Gui	aeline 405
Sodiu	um metabisulphite:			
Speci		:	Rabbit	
Resul Metho		:	Irreversible effect OECD Test Guid	
Resp	iratory or skin sensi	tisatio	on	
Skin	sensitisation			
May c	ause an allergic skin	reaction	on.	
Resp	iratory sensitisation			
-	-		nptoms or breathir	ng difficulties if inhaled.
-	oonents:	,		°
levan	nisole hydrochloride	:		
Rema	arks	:	No data availabl	le
Sodiu	um metabisulphite:			
	ssment	:		idence of skin sensitisation in hum
Rema	arks	:	Based on nation	al or regional regulation.
	ssment	:		sitisation by inhalation.
Rema	arks	:	Based on nation	al or regional regulation.
Chro	nic toxicity			
Gorm	cell mutagenicity			

Not classified based on available information.

### Components:

## levamisole hydrochloride:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: Chromosome aberration test in vitro Result: negative



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	<b>: acid:</b> otoxicity in vitro	: Test Type: Bac Result: negative	erial reverse mutation assay (AMES)
		Result: positive	tro micronucleus test terial reverse mutation assay (AMES) e
Geno	otoxicity in vivo		
Sodi	um metabisulphite:		
Geno	otoxicity in vitro	: Test Type: Bac Result: negative	erial reverse mutation assay (AMES)
			tro mammalian cell gene mutation test Test Guideline 476 e
Genc	otoxicity in vivo	cytogenetic ass Species: Mouse Application Rou Method: OECD Result: negative	e ite: Subcutaneous Test Guideline 474
	<b>inogenicity</b> lassified based on avai	lable information.	
Com	ponents:		
levan	nisole hydrochloride:		
•			

Species Application Route Exposure time NOAEL Remarks	 Mouse Oral 2 Years 80 mg/kg body weight No significant adverse effects were reported
Species Application Route Exposure time NOAEL Remarks	 Rat Oral 2 Years 40 mg/kg body weight No significant adverse effects were reported



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### Sodium metabisulphite:

Species	:	Mouse
Application Route	:	Ingestion
Exposure time	:	24 Months
Result	:	negative
Remarks	:	Based on data from similar materials

## **Reproductive toxicity**

Suspected of damaging the unborn child.

#### Components:

levamisole hydrochloride:	
Effects on fertility :	Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: Oral Result: No significant adverse effects were reported
Effects on foetal develop- : ment	Test Type: Embryo-foetal development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 20 mg/kg body weight Result: Fetotoxicity
	Test Type: Embryo-foetal development Species: Rabbit Application Route: Oral Developmental Toxicity: LOAEL: 40 mg/kg body weight Result: Fetotoxicity
Reproductive toxicity - As- : sessment	Some evidence of adverse effects on development, based on animal experiments.
Citric acid: Effects on foetal develop- : ment	Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative
Sodium metabisulphite:	
Effects on fertility :	Test Type: Three-generation study Species: Rat Application Route: Ingestion Result: negative
Effects on foetal develop- : ment	Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: negative



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## STOT - single exposure

Not classified based on available information.

## Components:

#### Citric acid:

Assessment

: May cause respiratory irritation.

## STOT - repeated exposure

May cause damage to organs (Blood, Testis) through prolonged or repeated exposure if swallowed.

### **Components:**

#### levamisole hydrochloride:

Target Organs Assessment	Blood, Testis May cause damage to organs through prolonged or repeated
	exposure.

#### **Repeated dose toxicity**

#### **Components:**

### levamisole hydrochloride:

Species NOAEL Application Route Exposure time Target Organs	:	Rat 2.5 mg/kg Oral 18 Months Testis
Species LOAEL Application Route Exposure time Target Organs	:	Dog 20 mg/kg Oral 18 Months Blood
Species LOAEL Application Route Exposure time	:	Dog 40 mg/kg Oral 3 Months
Citric acid:		
Species NOAEL LOAEL Application Route Exposure time	: : :	Rat 4,000 mg/kg 8,000 mg/kg Ingestion 10 Days



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Spec NOA LOAI Appli	EL	:	Rat 110 mg/kg 220 mg/kg Ingestion 104 Weeks	
Not c	ration toxicity classified based on availa prience with human exp			
-	ponents:	031	110	
	nisole hydrochloride:			
Inges	-	:	Symptoms: Naus tension	ea, Vomiting, Headache, Dizziness, hypo-
Section 1	2: Ecological information	on		
Ecot	oxicity			
<u>Com</u>	ponents:			
levar	nisole hydrochloride:			
Toxic	tity to fish	:	Exposure time: 9	ipes (Japanese medaka)): 37.3 mg/l 5 h est Guideline 203
	tity to daphnia and other tic invertebrates	:	Exposure time: 4	nagna (Water flea)): 64 mg/l 3 h est Guideline 202
Citric	c acid:			
Toxic	sity to fish	:	LC50 (Pimephale Exposure time: 90	s promelas (fathead minnow)): > 100 mg/l S h
	tity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 24	nagna (Water flea)): 1,535 mg/l 4 h
Sodi	um metabisulphite:			
	sity to fish	:	LC50 (Oncorhynd Exposure time: 90	hus mykiss (rainbow trout)): 178 mg/l 5 h
	city to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 44	nagna (Water flea)): 89 mg/l 3 h
Toxic plant	city to algae/aquatic s	:	ErC50 (Desmode Exposure time: 72	smus subspicatus (green algae)): 43.8 mg/l 2 h



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			EC10 (Desmodes Exposure time: 72	smus subspicatus (green algae)): 33.3 mg/ 2 h
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: 34 Method: OECD T	io (zebra fish)): >= 316 mg/l 4 d est Guideline 210 on data from similar materials
aquati	ty to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): >= 10 mg/l 1 d
ic toxicity) Toxicity to microorganisms		:	EC10 (Pseudomo Exposure time: 1	onas putida): 30.8 mg/l 7 h
Persis	stence and degradabili	ty		
<u>Comp</u>	oonents:			
Citric	acid:			
Biode	gradability	:	Result: Readily bi Biodegradation: Exposure time: 24 Method: OECD T	97 %
Bioac	cumulative potential			
<u>Comp</u>	oonents:			
Citric	acid:			
	on coefficient: n- pl/water	:	log Pow: -1.72	
	ity in soil			
	ta available			
	adverse effects ta available			

# Section 13: Disposal considerations

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste han-
		dling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.



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# Section 14: Transport information

### International Regulations

<b>UNRTDG</b> UN number Proper shipping name Class Subsidiary risk Packing group Labels	:	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)	:	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IMDG-Code UN number Proper shipping name Class Subsidiary risk Packing group Labels EmS Code Marine pollutant	:	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable

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

Not applicable for product as supplied.

#### **National Regulations**

## NZS 5433

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable

#### Special precautions for user

Not applicable



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#### Section 15: Regulatory information

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

#### HSNO Approval Number

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard

#### HSW Controls

Certified handler certificate not required. Tracking hazardous substance not required. Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

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

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

#### Section 16: Other information

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Further information				
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/		
Date format	:	dd.mm.yyyy		
Full text of other abbreviations				
ACGIH NZ OEL	:	USA. ACGIH Threshold Limit Values (TLV) New Zealand. Workplace Exposure Standards for Atmospher- ic Contaminants		
ACGIH / TWA NZ OEL / WES-TWA	:	8-hour, time-weighted average Workplace Exposure Standard - Time Weighted average		

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



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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 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.

NZ / EN