

Version 5.2	Revision Date: 30.09.2023		S Number: 5707-00019	Date of last issue: 04.04.2023 Date of first issue: 26.08.2016
	1: IDENTIFICATION act name	:	Halofuginone Fo	rmulation
Manu	facturer or supplier's	detai	ils	
Comp	bany	:	MSD	
Addre	9SS	:	91-105 Harpin S Bendigo 3550, \	
Telep	hone	:	1 800 033 461	
Emer	gency telephone numbe	er :	Poisons Informat	tion Centre: Phone 13 11 26
E-mai	il address	:	EHSDATASTEW	/ARD@msd.com
Reco	mmended use of the c	hem	ical and restriction	ons on use
	mmended use	:	Veterinary produ	ct
Restr	ictions on use	:	Not applicable	
SECTION	2. HAZARDS IDENTIF	ICAT	ION	
GHS	Classification			
	corrosion/irritation	:	Category 2	

Skin conosion/imitation	•	Calegory 2
Serious eye damage/eye irri- tation	:	Category 2A
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H315 Causes skin irritation. H319 Causes serious eye irritation.
Precautionary statements	:	Prevention: P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ eye protection/ face protection.
		Response:
		P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.





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P332 + P313 If skin irritation occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse.

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)
Lactic acid	50-21-5	>= 1 -< 3
Halofuginone	82186-71-8	< 1

SECTION 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	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
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. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Causes skin irritation. Causes serious eye irritation.
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.

SECTION 5. FIREFIGHTING MEASURES



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Ş	Suitable extinguishing media		:	Water spray Alcohol-resistant f Carbon dioxide (C	
r S f	media Specific fighting	ble extinguishing c hazards during fire- ous combustion prod-	:	Dry chemical None known. Exposure to comb Carbon oxides	pustion products may be a hazard to health.
(ods	extinguishing meth-	:	cumstances and t Use water spray t Remove undamag so. Evacuate area.	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
	for firefi	ghters	ASE	Use personal prot	ective equipment.
F	Persona tive equ	al precautions, protec- ipment and emer- procedures		Use personal prot Follow safe handl	ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
E	Environ	mental precautions	:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages
		s and materials for ment and cleaning up	:	For large spills, pr ment to keep mate be pumped, store Clean up remaining bent. Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	a absorbent material. Tovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. In materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- tions are applicable. 5 of this SDS provide information regarding tional requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE
		CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.



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Advice on safe handling		 Do not get on skin or clothing. Avoid inhalation of vapour or mist. Do not swallow. Do not get in eyes. 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 Take care to prevent spills, waste and minimize release to the 					
Hygiene measures		flushing system place. When using do Wash contamin The effective op engineering cor appropriate deg	hemical is likely during typical use, provide eye s and safety showers close to the working not eat, drink or smoke. ated clothing before re-use. beration of a facility should include review of ntrols, proper personal protective equipment, jowning and decontamination procedures, ne monitoring, medical surveillance and the rative controls.				
	nditions for safe storage terials to avoid	 Keep in properly labelled containers. Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing agents 					

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
Halofuginone	82186-71-8	TWA	5 µg/m3 (OEB 4)	Internal
	Further information: DSEN, Skin			
		Wipe limit	50 µg/100 cm²	Internal

Engineering measures
 All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Essentially no open handling permitted. Use closed processing systems or containment technologies. If handled in a laboratory, use a properly designed biosafety cabinet, fume hood, or other containment device if the potential exists for aerosolization. If this potential does not exist, handle over lined trays or benchtops.
 Personal protective equipment

Respiratory protection:If adequate local exhaust ventilation is not available or expo-
sure assessment demonstrates exposures outside the rec-
ommended guidelines, use respiratory protection.Filter type:Organic vapour type



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Hand	protection						
M	aterial	: Chemical-resi	: Chemical-resistant gloves				
Remarks Eye protection		If the work en mists or aeros Wear a faces	ble gloving. lasses with side shields or goggles. vironment or activity involves dusty conditions, sols, wear the appropriate goggles. hield or other full face protection if there is a irect contact to the face with dusts, mists, or				
Skin a	and body protection	Additional boo task being pe posable suits)	or laboratory coat. dy garments should be used based upon the rformed (e.g., sleevelets, apron, gauntlets, dis- to avoid exposed skin surfaces. ate degowning techniques to remove potentially clothing.				

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	yellow
Odour	:	odourless
Odour Threshold	:	No data available
рН	:	2.1 - 3
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	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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	Density	1	:	No data available	9
	Solubility(ies) Water solubility		:	No data available	9
	Partition coefficient: n- octanol/water		:	No data available	
		nition temperature	:	No data available	9
	Decomposition temperature		:	No data available	9
	Viscosity Viscosity, kinematic		:	No data available	2
	Explosive properties		:	Not explosive	
	Oxidizii	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecular weight		:	No data available	9
	Particle size		:	No data available	9

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions		Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	None known. 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 ava <u>Components:</u>	able information.
Lactic acid: Acute oral toxicity	: LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials
Acute inhalation toxicity	: LC50 (Rat): > 5 mg/l



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		Assessment: C		
Acute	e dermal toxicity	Assessment: T toxicity	: > 2,000 mg/kg The substance or mixture has no acute dermal ed on data from similar materials	
Halof	uginone:			
	oral toxicity	: LD50 (Rat): 30) mg/kg	
		LD50 (Mouse)	: 5 mg/kg	
Acute	inhalation toxicity	: LC50 (Rat): 0. Test atmosphe	5	
Acute	e dermal toxicity	: LD50 (Rabbit):	LD50 (Rabbit): 16 mg/kg	
Cause	corrosion/irritation es skin irritation. conents:			
Lactic Speci Metho Resul Rema	od It		uideline 404 r 1 to 4 hours of exposure r from similar materials	
Halof Speci Resu		: Rabbit : Skin irritation		
	us eye damage/eye es serious eye irritatio			
	ponents:			
Lacti	c acid:			
Speci Rema		: Chicken eye : Based on data	from similar materials	
Resu	lt	: Irreversible eff	ects on the eye	
Halof Resu	uginone: It	: Severe irritatio	n	



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Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Lactic acid:

Test Type :	Buehler Test
Exposure routes :	Skin contact
Species :	Guinea pig
Result :	negative
Remarks :	Based on data from similar materials

Halofuginone:

Exposure routes	: Dermal
Species	: Guinea pig
Result	: Sensitiser

Chronic toxicity

Germ cell mutagenicity

Not classified based on available information.

Components:

Lactic acid:	
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials
	Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials
	Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials
Halofuginone:	
Genotoxicity in vitro :	Test Type: Ames test Result: positive
	Test Type: Mayse Lymphome

Test Type: Mouse Lymphoma



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		Result: negativ	re
			romosomal aberration uman lymphoblastoid cells re
			A damage and repair, unscheduled DNA sy nalian cells (in vitro) ⁄e
Genotoxicity in vivo	: Test Type: Mic Species: Mous Cell type: Bone Application Ro Result: negativ	e e marrow ute: Oral	
		Test Type: Cyt Species: Rat Application Ro Result: negativ	
		Test Type: DN Species: Mous	
		Application Ro Result: negativ	
Carci	inogenicity		
	inogenicity lassified based on av	Result: negativ	
Not c	• •	Result: negativ	
Not c <u>Com</u>	lassified based on av	Result: negativ	
Not c <u>Com</u> Lacti Speci	lassified based on av ponents: c acid: ies	Result: negativ vailable information.	
Not c <u>Com</u> Lacti Speci Applie	lassified based on av ponents: c acid: ies cation Route	Result: negativ vailable information. : Rat : Ingestion	
Not c <u>Com</u> Lacti Speci Applie	lassified based on av ponents: c acid: ies cation Route sure time	Result: negativ vailable information. : Rat : Ingestion : 2 Years	
Not c <u>Com</u> Lacti Speci Applie Expos	lassified based on av ponents: c acid: ies cation Route sure time It	Result: negativ vailable information. : Rat : Ingestion : 2 Years : negative	
Not c <u>Com</u> Lacti Speci Applie Expos Resu Resu	lassified based on av ponents: c acid: ies cation Route sure time It	Result: negativ vailable information. : Rat : Ingestion : 2 Years : negative	re
Not c Com Lacti Speci Applie Expos Resu Rema Halof Speci	lassified based on av ponents: c acid: ies cation Route sure time lt arks fuginone: ies	Result: negativ vailable information. : Rat : Ingestion : 2 Years : negative : Based on data : Mouse	re
Not c Com Lacti Speci Applie Expo Resu Resu Rema Halof Speci Applie	lassified based on av ponents: c acid: ies cation Route sure time It arks fuginone: ies cation Route	Result: negativ vailable information. : Rat : Ingestion : 2 Years : negative : Based on data : Mouse : Oral	re from similar materials
Not c Com Lacti Speci Applie Expos Resu Rema Halof Speci	lassified based on av ponents: c acid: ies cation Route sure time lt arks fuginone: ies cation Route EL	Result: negativ vailable information. : Rat : Ingestion : 2 Years : negative : Based on data : Mouse	re from similar materials
Not c Com Lacti Speci Applie Expos Resu Rema Halof Speci Applie NOAI Resu Speci	lassified based on av ponents: c acid: ies cation Route sure time It arks fuginone: ies cation Route EL It ies	Result: negative vailable information. : Rat : Ingestion : 2 Years : negative : Based on data : Oral : 0.24 mg/kg boo : negative : Rat	re from similar materials
Not c Com Lacti Speci Applie Expos Resu Rema Halof Speci Applie Resu Speci Applie	lassified based on av ponents: c acid: ies cation Route sure time It arks fuginone: ies cation Route EL It ies cation Route	Result: negative /ailable information. : Rat : Ingestion : 2 Years : negative : Based on data : Oral : 0.24 mg/kg boo : negative : Rat : Oral : Oral	re from similar materials
Not c Com Lacti Speci Applie Expos Resu Rema Halof Speci Applie Resu Speci Applie Resu Speci Applie Resu	lassified based on av ponents: c acid: ies cation Route sure time It arks fuginone: ies cation Route EL It ies cation Route sure time	Result: negative /ailable information. : Rat : Ingestion : 2 Years : negative : Based on data : Oral : 0.24 mg/kg boo : negative : Rat : Oral : Oral : 3 weeks	re from similar materials dy weight
Not c Com Lacti Speci Applie Expos Resu Rema Halof Speci Applie Resu Speci Applie	lassified based on av ponents: c acid: ies cation Route sure time It arks fuginone: ies cation Route EL It ies cation Route sure time Sure time EL	Result: negative /ailable information. : Rat : Ingestion : 2 Years : negative : Based on data : Oral : 0.24 mg/kg boo : negative : Rat : Oral : Oral	re from similar materials dy weight



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Exp	blication Route bosure time AEL sult	: Oral : 26 Months : 0.09 - 0.18 m : negative	g/kg body weight
	productive toxicity classified based on avai	able information.	
<u>Co</u>	mponents:		
	tic acid: acts on foetal develop- nt	Species: Mou	oute: Ingestion
	ofuginone: acts on fertility		ISE
		Test Type: Fe Species: Dog Application R Fertility: LOA Result: Effect	oute: Oral EL: 0.067 mg/kg body weight
		Species: Mou Application R General Toxic Symptoms: R	oute: Oral city F1: LOAEL: 0.063 mg/kg body weight educed body weight fects on fertility and early embryonic develop-
Effe me	ects on foetal develop- nt	Species: Rat Application R General Toxic Embryo-foeta	nbryo-foetal development oute: Oral city Maternal: LOAEL: 0.34 mg/kg body weight I toxicity: NOAEL: 0.67 mg/kg body weight nbryo-foetal toxicity, No teratogenic effects
		Species: Rab Application R General Toxic Embryo-foeta	



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	oductive toxicity - As-		ce of adverse effects on sexual function and
sessr	ment	fertility, based	on animal experiments.
	F - single exposure lassified based on ava	ilable information.	
	F - repeated exposure lassified based on available		
Com	ponents:		
Targe	fuginone: et Organs ssment	: Blood : Causes dama exposure.	ge to organs through prolonged or repeated
Repe	ated dose toxicity		
Com	ponents:		
Lacti	c acid:		
	EL cation Route sure time	: Rat : > 100 mg/kg : Ingestion : 13 Weeks : Based on data	a from similar materials
		: Rat : 886 mg/kg : Skin contact : 13 Weeks	
Halot	fuginone:		
Spec NOAI LOAE Appli Expo	ies EL	: Mouse : 0.07 mg/kg : 0.16 mg/kg : Oral : 4 Weeks : Blood	
Expo	EL	: Rat : 0.13 mg/kg : 0.88 mg/kg : Oral : 13 Weeks : Liver	
Spec NOAI LOAE Applie	EL	: Dog : 0.067 mg/kg : 0.134 mg/kg : Oral	

Components:



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	sure time	: 13 Weeks	
Targe	t Organs	: Blood	
Speci NOAE		: Dog : 0.075 mg/kg	
LOAE		: 0.16 mg/kg	
	cation Route	: Oral	
	sure time	: 26 Weeks	
large	t Organs	: Blood	
Aspir	ation toxicity		
•	assified based on ava	ailable information.	
Expe	rience with human e	exposure	
<u>Comp</u>	oonents:		
Halof	uginone:		
Gene	ral Information	: No human infor	mation is available.
Inhala	ation		cause irritation of respiratory tract.
Skin d	contact	May cause sen	cause skin irritation and/or dermatitis. sitisation by skin contact.
	ontoot		ed through skin.
Eye c	ontact	: Remarks: May	imiate eyes.
CTION	12. ECOLOGICAL IN	NFORMATION	

Lactic acid:	
Toxicity to fish :	LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic : plants	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
	NOEC (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201



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			Remarks: Based o	on data from similar materials	
Toxi	Toxicity to microorganisms		EC50: > 10 - 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials		
Halo	ofuginone:				
	Toxicity to fish		Exposure time: 96	hus mykiss (rainbow trout)): 1.8 mg/l 5 h on data from similar materials	
			Exposure time: 72	arpio (Carp)): 0.3 mg/l ! h on data from similar materials	
			Exposure time: 96	acrochirus (Bluegill sunfish)): 0.12 mg/l bh on data from similar materials	
	Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia magna (Water flea)): 0.02 mg/l Exposure time: 48 h Remarks: Based on data from similar materials		
	Toxicity to algae/aquatic plants		EC50 (Chlorella pyrenoidosa (algae)): 46 mg/l Method: OECD Test Guideline 201 Remarks: Based on data from similar materials		
Pers	sistence and degradabil	ity			
Con	nponents:				
	Lactic acid: Biodegradability		Result: Not readily Remarks: Based o	/ biodegradable. on data from similar materials	
	o fuginone: degradability	:	Result: Not readily	/ biodegradable.	
Bioa	accumulative potential				
Con	nponents:				
Lac	tic acid:				
	Partition coefficient: n- octanol/water		log Pow: -0.62		
	ofuginone:				
	Partition coefficient: n- octanol/water		log Pow: 1.18		



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Mobi	lity in soil			
Com	ponents:			
Halo	fuginone:			
	bution among environ-		log Koc: 3.87	
ment	al compartments		Method: FDA 3	3.08
Othe	r adverse effects			
No da	ata available			
Conta	aminated packaging	 Do not dispose of waste into sewer. Dispose of in accordance with local regulations. 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. 		
ECTION	14. TRANSPORT INFO	ORMA	TION	
Inter	national Regulations			
UNR	TDG			
	umber		Not applicable	
Prope	er shipping name		Not applicable Not applicable	
	, idiary risk		Not applicable	
Packi	ing group		Not applicable	
Labe		:	Not applicable	
ΙΑΤΑ	-DGR			
			Not appliached	
UN/IE Prope	D No. er shipping name		Not applicable Not applicable	

Proper shipping hame	•	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo	:	Not applicable
aircraft)		
Packing instruction (passen-	:	Not applicable
ger aircraft)		
IMDG-Code		
UN number		Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
	:	
Subsidiary risk	•	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable

EmS Code

Not applicable

:



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Marii	ne pollutant	: 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

:	Not applicable
:	Not applicable
	:

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mix-ture

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

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

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

SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information

Revision Date Sources of key data used to compile the Safety Data Sheet	:	30.09.2023 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



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AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant: DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information 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.

AU / EN