



Version 2.10	Revision Date: 30.09.2023		S Number:)3443-00016	Date of last issue: 04.04.2023 Date of first issue: 10.12.2018			
1. PROI	1. PRODUCT AND COMPANY IDENTIFICATION						
Pro	oduct name	:	Albendazole Su	ulfoxide (1.9%) Formulation			
Ма	nufacturer or supplier's d	letai	ils				
Co	mpany	:	MSD				
Ade	dress	:	50 Tuas West I Singapore - Si	Drive ngapore 638408			
Tel	ephone	:	+1-908-740-40	00			
Em	ergency telephone number	:	65 6697 2111 (24/7/365)			
E-r	nail address	:	EHSDATASTE	WARD@msd.com			
Recommended use of the ch		nem	ical and restrict	ions on use			
	commended use strictions on use	:	Veterinary prod Not applicable	luct			

2. HAZARDS IDENTIFICATION

GHS Classification Skin sensitisation	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 2
GHS label elements Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P261 Avoid breathing mist or vapours. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves.



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Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

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)
Glycerine	56-81-5	>= 1 -< 10
Albendazole Sulfoxide	54029-12-8	>= 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.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment

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N /				I for exposure exists (see section 8).
	s to physician	•	I reat symptomati	cally and supportively.
5. FIREFIC	GHTING MEASURES			
	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
Unsu media	itable extinguishing	:	None known.	
	fic hazards during fire-	:	Exposure to com	pustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	:	Carbon oxides Nitrogen oxides (I Sulphur oxides	NOx)
Speci ods	fic 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
	al protective equipment efighters	:	Evacuate area. In the event of fire	e, wear self-contained breathing apparatus. tective equipment.
6. ACCIDI	ENTAL RELEASE MEA	SUF	RES	
tive e	onal precautions, protec- quipment and emer- / procedures	:	Follow safe handl	tective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
Envir	onmental 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
	ods and materials for inment and cleaning up	:	For large spills, pr ment to keep mat be pumped, store Clean up remaining bent. Local or national posal of this mate employed in the of mine which regula Sections 13 and	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. ng 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- ations are applicable. 15 of this SDS provide information regarding tional requirements.



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7. HANDLING AND STORAGE

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 get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Avoid contact with 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 Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labelled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Glycerine	56-81-5	PEL (long term) (Mist)	10 mg/m3	SG OEL
Albendazole Sulfoxide	54029-12-8	TWA	40 µg/m3 (OEB 3)	Internal
	Further informa	ation: DSEN		
		Wipe limit	100 µg/100 cm2	Internal

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. Laboratory operations do not require special containment.
Personal protective equipment	nt	
Perpiratory protection ·		If adaquate local exhaust ventilation is not available or expo-

Respiratory protection	•	sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type Hand protection	:	Combined particulates and organic vapour type
Material	:	Chemical-resistant gloves



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Eye p	rotection	If the work environmists or aerosols Wear a faceshie	esses with side shields or goggles. conment or activity involves dusty conditions, s, wear the appropriate goggles. Id or other full face protection if there is a ct contact to the face with dusts, mists, or
	and body protection ne measures	eye flushing sys ing place. When using do r Contaminated w workplace. Wash contamina The effective op engineering con appropriate dego	nemical is likely during typical use, provide tems and safety showers close to the work- not eat, drink or smoke. Fork clothing should not be allowed out of the ated clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, e monitoring, medical surveillance and the

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Colour	:	white
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
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



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R	elative	e vapour density	:	No data available	2
R	elative	e density	:	No data available	9
D	ensity	,	:	No data available	9
So		ty(ies) er solubility	:	No data available	9
		n coefficient: n-	:	Not applicable	
		/water nition temperature	:	No data available	9
D	ecom	position temperature	:	No data available	9
Vi	iscosi Visc	ty osity, kinematic	:	No data available	9
E	xplosi	ve properties	:	Not explosive	
O)xidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
М	lolecu	lar weight	:	No data available	9
Pa	article	size	:	Not applicable	
10. ST	ABIL	ITY AND REACTIVITY	ſ		
C		ity al stability lity of hazardous reac-	:	Stable under nor	a reactivity hazard. mal conditions. rong oxidizing agents.

Possibility of hazardous reac-	:	Can react with strong oxidizing agents.
tions		
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition	:	No hazardous decomposition products are known.
products		

11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity

: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method



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<u>Comp</u>	oonents:			
Glyce	erine:			
Acute	oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
Acute	dermal toxicity	:	LD50 (Guinea pig): > 5,000 mg/kg
Alben	dazole Sulfoxide:			
Acute	oral toxicity	:	LD50 (Mouse): 1,	500 mg/kg
			LD50 (Rat): 2,400) mg/kg
	toxicity (other routes of istration)	:	LD50 (Rat): 265 r Application Route	
-	corrosion/irritation assified based on availa	blo	information	
	oonents:	DIE	intormation.	
Glyce Speci		:	Rabbit	
Resul		:	No skin irritation	
Alber	dazole Sulfoxide:			
Speci		:	Rabbit	
Resul	t	:	No skin irritation	
	us eye damage/eye irri			
Not cl	assified based on availa	ble	information.	
Comp	oonents:			
Glyce	erine:			
Speci		:	Rabbit	
Resul	t	:	No eye irritation	
Alben	dazole Sulfoxide:			
Speci		:	Rabbit	
Resul	l	•	No eye irritation	
Respi	ratory or skin sensitis	atic	on	
_	sensitisation	_		
-	ause an allergic skin rea	actio	on.	
Respi	ratory sensitisation			



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Com	oonents:		
Test T Expos	ndazole Sulfoxide: Type sure routes ssment		est vidence of low to moderate skin sensitisat
Resul	t	rate in humans : positive	
Test Expos Resul	sure routes	: Maximisation Te : Dermal : Sensitiser	est
	cell mutagenicity assified based on av	ailable information.	
	oonents:		
Glyce	erine:		
Geno	toxicity in vitro	: Test Type: In vi Result: negative	tro mammalian cell gene mutation test
		Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
		Test Type: Chro Result: negative	omosome aberration test in vitro
			damage and repair, unscheduled DNA s alian cells (in vitro)
Alber	ndazole Sulfoxide:		
Geno	toxicity in vitro	: Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
			omosomal aberration ninese hamster ovary cells e
Geno	toxicity in vivo	: Test Type: Micr Species: Mouse Cell type: Bone Result: negative	e marrow

Not classified based on available information.



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Com	ponents:		
Glyce	erine:		
Speci		: Rat	
	cation Route	: Ingestion	
	sure time	: 2 Years	
Resu	It	: negative	
Alber	ndazole Sulfoxide:		
Speci	ies	: Mouse	
	cation Route	: Oral	
Expo: NOAE	sure time =	: 2 Years : 400 mg/kg bo	dy woight
Resu		: negative	uy weight
		-	
Speci	es cation Route	: Rat : Oral	
	sure time	: 2 Years	
NOA		: 20 mg/kg bod	y weight
Resu	lt	: negative	
Carci ment	nogenicity - Assess-	: No evidence of	of carcinogenicity in animal studies.
Repr	oductive toxicity		
	lassified based on ava	lable information.	
<u>Com</u>	ponents:		
Glyce	erine:		
Effect	ts on fertility		vo-generation reproduction toxicity study
		Species: Rat	
		Result: negati	oute: Ingestion
		-	
	ts on foetal develop-		nbryo-foetal development
ment		Species: Rat Application Ro	oute: Ingestion
		Result: negati	
Albo	ndazole Sulfoxide:		
	ts on fertility	: Test Type: Fe	rtility
21100		Species: Rat	
		Application Ro	
			EL: 30 mg/kg body weight ects on fertility
			-
Effect ment	ts on foetal develop-	: Test Type: De Species: Rat	evelopment
ment		Application Ro	oute: Oral
		Developmenta	al Toxicity: LOAEL: 10 mg/kg body weigl
		Decult. Employ	otoxic effects., Skeletal malformations



0	Revision Date: 30.09.2023	SDS Number: 3903443-00016	Date of last issue: 04.04.2023 Date of first issue: 10.12.2018
		Test Type: Dev	relonment
		Species: Rabb	it
		Application Ro	ute: Oral I Toxicity: LOAEL: 30 mg/kg body weight
			ptoxic effects., Skeletal malformations, Materi
		Test Type: Dev	velopment
		Species: Rat Application Ro	ute: Oral
			I Toxicity: NOAEL: 5.8 mg/kg body weight on postnatal development
		Test Type: Dev	velopment
		Species: Rat Application Ro	ute: Oral
		Developmenta	I Toxicity: LOAEL: 7 mg/kg body weight
		Result: Embryo spring were de	ptoxic effects and adverse effects on the off- tected.
	oductive toxicity - As-	: Suspected of c	lamaging the unborn child.
sessn	nem		
STOT	 single exposure lassified based on avai 	lable information.	
STOT Not cl	- single exposure	lable information.	
STOT Not cl <u>Comp</u>	- single exposure lassified based on avai	lable information.	
STOT Not cl Comp Alber Expos	- single exposure lassified based on avai ponents: ndazole Sulfoxide: sure routes	: Oral	
STOT Not cl Comp Alber Expos Targe	- single exposure lassified based on avai <u>ponents:</u> ndazole Sulfoxide:	: Oral : Gastrointestina	al tract, Central nervous system nage to organs.
STOT Not cl Comp Alber Expos Targe Asses STOT	F - single exposure lassified based on avai <u>ponents:</u> ndazole Sulfoxide: sure routes et Organs ssment F - repeated exposure	: Oral : Gastrointestina : May cause dar	
STOT Not cl Comp Alber Expos Targe Asses STOT Not cl	 single exposure lassified based on avained assified based on avained assified based on avained assified based on avaination repeated exposure lassified based on avaination 	: Oral : Gastrointestina : May cause dar	
STOT Not cl Comp Alber Expos Targe Asses STOT Not cl Comp	Single exposure lassified based on avai <u>bonents:</u> ndazole Sulfoxide: sure routes et Organs ssment - repeated exposure lassified based on avai <u>bonents:</u>	: Oral : Gastrointestina : May cause dar	
STOT Not cl Comp Alber Expos Targe Asses STOT Not cl Comp Alber	 r - single exposure lassified based on avaination of the second second	: Oral : Gastrointestina : May cause dar lable information.	
STOT Not cl Comp Alber Expos Targe Asses STOT Not cl Comp Alber Expos	Single exposure lassified based on avai <u>bonents:</u> ndazole Sulfoxide: sure routes et Organs ssment - repeated exposure lassified based on avai <u>bonents:</u>	: Oral : Gastrointestina : May cause dar lable information. : Oral : Gastrointestina	nage to organs.
STOT Not cl Comp Alber Expos Targe Asses STOT Not cl Comp Alber Expos Targe	 r - single exposure lassified based on avaination of the second seco	: Oral : Gastrointestina : May cause dar lable information. : Oral : Gastrointestina tem, Liver	nage to organs. al tract, Central nervous system, Immune sys
STOT Not cl Comp Alber Expos Targe Asses STOT Not cl Comp Alber Expos Targe Asses	 r - single exposure lassified based on avaination on ents: ndazole Sulfoxide: sure routes bar Organs ssment r - repeated exposure lassified based on avaination on ents: ndazole Sulfoxide: sure routes bar outes 	 Oral Gastrointestina May cause dar lable information. Oral Gastrointestina tem, Liver May cause dar 	
STOT Not cl Comp Alber Expos Targe Asses STOT Not cl Comp Alber Expos Targe Asses Repe	 F - single exposure lassified based on avained assified based on avained assified based on avained or avained assified based on avained assimute ass	 Oral Gastrointestina May cause dar lable information. Oral Gastrointestina tem, Liver May cause dar 	nage to organs. al tract, Central nervous system, Immune sys
STOT Not cl Comp Alber Expos Targe Asses STOT Not cl Comp Alber Expos Targe Asses Repe	 F - single exposure lassified based on avained assified based on avained assified based on avained or gans F - repeated exposure lassified based on avained assified based on avained assified based on avained assified based on avained assified sure routes Adazole Sulfoxide: sure routes ated dose toxicity bonents: 	 Oral Gastrointestina May cause dar lable information. Oral Gastrointestina tem, Liver May cause dar 	nage to organs. al tract, Central nervous system, Immune sys



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		: 0.167 : 0.622 : inhalat : 13 We	mg/l tion (dust/m	iist/fume)
		: Rat : 8,000 : Ingest : 2 yr	- 10,000 mg ion	g/kg
		: Rabbit : 5,040 : Skin c : 45 We	mg/kg ontact	
Speci LOAE Applic Expos	EL cation Route sure time et Organs			
Expo	EL cation Route sure time et Organs		•	
Expo	EL cation Route sure time et Organs		/kg ths Liver, Nose	e cts, Liver effects
Expo	EL cation Route sure time et Organs	: Rat : >= 30 : Oral : 6 Mon : Blood : Hemat		cts
Expo	EL cation Route sure time et Organs	: Dog : 40 mg : Oral : 6 Mon : Blood, : Hemat	ths Liver	cts, Liver effects
Speci	es	: Rat		



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Expos	ation Route ure time t Organs	: 7 mg/kg : Oral : 60 d : Liver, Testis : Liver effects, m	ale reproductive effects
Not cla	ation toxicity assified based on ava		
-	ience with human e	xposure	
<u>Comp</u>	onents:		
Alben	dazole Sulfoxide:		
Gener	al Information		ergic reactions, hair loss, Gastrointestinal dis-
Skin c	ontact	: Target Organs: Symptoms: Alle	
Ingest	ion	: Target Organs: Symptoms: Gas dominal pain Target Organs: Symptoms: Hea Target Organs: Symptoms: live Target Organs:	Gastrointestinal tract strointestinal disturbance, Diarrhoea, Ab- Central nervous system adache, Dizziness

Ecotoxicity

Components:

Giycerine.		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1,955 mg/l Exposure time: 48 h
Toxicity to microorganisms	:	NOEC (Pseudomonas putida): > 10,000 mg/l Exposure time: 16 h Method: DIN 38 412 Part 8
Albendazole Sulfoxide:		
Toxicity to fish	:	EC50 (Brachydanio rerio (zebrafish)): 0.042 mg/l Exposure time: 144 hrs
Toxicity to daphnia and other	:	EC50 (Daphnia magna (Water flea)): 0.068 mg/l



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				–		
а	iquatic	invertebrates		Exposure time: 48 Method: OECD T	est Guideline 202	
	Toxicity to algae/aquatic plants		:	EC50 (Raphidocelis subcapitata (freshwater green alga)): 0.024 mg/l Exposure time: 72 h Method: OECD Test Guideline 201		
	M-Factor (Acute aquatic tox- : 10					
N	icity) M-Factor (Chronic aquatic : 10 toxicity)					
Р	Persist	ence and degradabil	ity			
Components:						
	Slyceri					
B	Biodegradability		:	Result: Readily biodegradable. Biodegradation: 92 % Exposure time: 30 d Method: OECD Test Guideline 301D		
В	Bioacc	umulative potential				
Components:						
Glycerine:						
	Partition octanol	n coefficient: n- /water	:	log Pow: -1.75		
		lazole Sulfoxide:				
	Partition octanol	n coefficient: n- /water	:	log Pow: 1.27 pH: 7		
N	/lobilit	y in soil				
		a available				
-	Other adverse effects					
No data available						
13. DISPOSAL CONSIDERATIONS						
D	Dispos	al methods				
V	Vaste f	from residues	:		waste into sewer.	
C	Contaminated packaging :		:	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.		



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14. TRANSPORT INFORMATION

International Regulations

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

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

Not applicable for product as supplied.

Special precautions for user

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

15. REGULATORY INFORMATION

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



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Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and : Not applicable Environmental Protection and Management (Hazardous Substances) Regulations

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

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

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

16. OTHER INFORMATION

Revision Date		30.09.2023			
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 Agency, http://echa.europa.eu/			
Date format		dd.mm.yyyy			
Full text of other abbreviations					
SG OEL	:	Singapore. Workplace Safety and Health (General Provisions) Regulations - First Schedule Permissible Exposure Limits of Toxic Substances.			

SG OEL / PEL (long term) : Permissible Exposure Level (PEL) Long Term

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



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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.

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