

Version 3.0	Revision Date: 06.07.2024		S Number: 84314-00020	Date of last issue: 30.04.2024 Date of first issue: 30.11.2018	
SECTION	1. IDENTIFICATION				
Produ	uct name	:	Albendazole Sul	foxide (10%) Formulation	
Manu	afacturer or supplier's	s deta	ils		
Com	Company		MSD		
Address		:	Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP		
Telep	Telephone		908-740-4000		
Emer	gency telephone	:	1-908-423-6000		
E-ma	E-mail address		EHSDATASTEWARD@msd.com		
Reco	mmended use of the	chem	ical and restricti	ons on use	
Recommended use Restrictions on use		:	Veterinary produ Not applicable	ıct	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		Category 1
Reproductive toxicity		Category 2
Specific target organ toxicity - single exposure (Oral)	:	Category 2 (Gastrointestinal tract, Central nervous system)
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Gastrointestinal tract, Central nervous system, Immune system, Liver)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H317 May cause an allergic skin reaction.



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		H371 May cau Central nervou H373 May cau Central nervou longed or repe	eted of damaging the unborn child. se damage to organs (Gastrointestinal tract, is system) if swallowed. se damage to organs (Gastrointestinal tract, is system, Immune system, Liver) through pro- ated exposure if swallowed. ic to aquatic life with long lasting effects.
Preca	autionary Statements	P202 Do not h and understoo P260 Do not b P264 Wash sk P270 Do not e P272 Contami the workplace. P273 Avoid rel	reathe mist or vapors. in thoroughly after handling. at, drink or smoke when using this product. nated work clothing should not be allowed out of lease to the environment. otective gloves/ protective clothing/ eye protec-
		P308 + P311 I CENTER/ doc P333 + P313 I vice/ attention.	f skin irritation or rash occurs: Get medical ad- Fake off contaminated clothing and wash it before
		Storage: P405 Store loc	sked 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)
Albendazole Sulfoxide	54029-12-8	>= 10 -< 20
Glycerine	56-81-5	>= 5 -< 10

SECTION 4. FIRST AID MEASURES

General advice

: In the case of accident or if you feel unwell, seek medical



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			diately. oms persist or in all cases of doubt seek medical			
lf inha	aled		move to fresh air.			
In cas	se of skin contact	 Get medical attention. In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. 				
In cas	se of eye contact	Thoroughly o	ng before reuse. clean shoes before reuse. vith water as a precaution.			
meas	se of eye contact		attention if irritation develops and persists.			
lf swa	allowed	: If swallowed Get medical Rinse mouth	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.			
	important symptoms offects, both acute and red	: May cause a Suspected o May cause d May cause d	n allergic skin reaction. f damaging the unborn child. lamage to organs if swallowed. lamage to organs through prolonged or repeated			
Prote	ction of first-aiders	 exposure if swallowed. First Aid responders should pay attention to self-protecti and use the recommended personal protective equipme when the potential for exposure exists (see section 8). 				
Notes	s to physician		omatically and supportively.			

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray 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 Nitrogen oxides (NOx) Sulfur 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 fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :	:	Use personal protective equipment.
tive equipment and emer-		Follow safe handling advice (see section 7) and personal
gency procedures		protective equipment recommendations (see section 8).

SAFETY DATA SHEET



Albendazole Sulfoxide (10%) Formulation

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Enviro	nmental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages
	ds and materials for ment and cleaning up	:	For large spills, pl containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national disposal of this m employed in the c determine which in Sections 13 and 1	t absorbent material. rovide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. IS of this SDS provide information regarding attonal requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures Local/Total ventilation Advice on safe handling		See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. Use only with adequate ventilation. Do not get on skin or clothing. Do not breathe mist or vapors. 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 assessment 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 labeled containers. Store locked up. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	



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Alber	ndazole Sulfoxide		54029-12-8	TWA	45 μg/m3 (OEB 3)	Internal		
			Further informa	ation: DSEN				
				Wipe limit	100 µg/100 cm2	Internal		
Glyce	erine		56-81-5	CMP (Mist)	10 mg/m ³	AR OEL		
Engi	neering measures	:	o control airborn inections). g controls shoul berated in accord cts, workers, and echnologies sui o control at sour	controls and manufac ne concentrations (e. d be implemented by dance with GMP prin d the environment. table for controlling o rce and to prevent mi l areas (e.g., open-fa	g., drip- / facility ciples to compounds gration of			
Pers	onal protective equipn	nent						
Resp Fi	iratory protection Iter type	 If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside recommended guidelines, use respiratory protection. Combined particulates and organic vapor type 						
	aterial	:	Chemical-resi	stant gloves				
	emarks 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 					
Skin	and body protection	:	 aerosols. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing. 					
Hygie	ene measures	:	If exposure to eye flushing s working place When using d Contaminated workplace. Wash contam The effective of engineering co appropriate de industrial hygi	chemical is like ystems and safe o not eat, drink work clothing s inated clothing l operation of a fa ontrols, proper p egowning and d	hould not be allowed before re-use. acility should include bersonal protective en econtamination proce medical surveillance	the I out of the review of quipment, edures,		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



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	Appear	ance	:	suspension	
	Color		:	white	
	Odor		:	No data available	
	Odor Th	nreshold	:	No data available	
	рН		:	No data available	
	Melting	point/freezing point	:	No data available	•
	Initial bo range	piling point and boiling	:	No data available	
	Flash p	oint	:	Not applicable	
	Evapora	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	No data available	
	Relative	e density	:	No data available	
	Density		:	No data available	
	Solubilit Wate	ty(ies) er solubility	:	No data available	
	Partitior octanol	n coefficient: n-	:	Not applicable	
		ition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosit Visc	y osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	mixture is not classified as oxidizing.
	Molecul	ar weight	:	No data available	



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	cle characteristics cle size	:	No data availab	le
ECTION	10. STABILITY AND RE	EAC	ΤΙVITY	
	tivity nical stability ibility of hazardous reac-	:	Stable under no	s a reactivity hazard. rmal conditions. strong oxidizing agents.
Incon	itions to avoid npatible materials rdous decomposition ucts	:	None known. Oxidizing agent No hazardous d	s ecomposition products are known.
ECTION	11. TOXICOLOGICAL I	NFC	RMATION	
Inforr expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity lassified based on availa	ble	nformation.	
Prod Acute	uct: e oral toxicity	:	Acute toxicity es Method: Calcula	timate: > 5.000 mg/kg tion method
<u>Com</u>	ponents:			
Albe	ndazole Sulfoxide:			
Acute	e oral toxicity	:	LD50 (Mouse): 1	.500 mg/kg
			LD50 (Rat): 2.40	0 mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Rat): 265 Application Rout	
	erine:			
Glyce	erine: e oral toxicity	:	LD50 (Rat): > 5.0	000 mg/kg
Glyce Acute		:	. ,	000 mg/kg g): > 5.000 mg/kg
Glyce Acute Acute Skin Not c	e oral toxicity e dermal toxicity corrosion/irritation lassified based on availa	:	LD50 (Guinea pi	
Glyce Acute Acute Skin Not c <u>Com</u>	e oral toxicity e dermal toxicity corrosion/irritation lassified based on availa ponents:	:	LD50 (Guinea pi	
Glyce Acute Acute Skin Not c <u>Com</u>	e oral toxicity e dermal toxicity corrosion/irritation lassified based on availa <u>ponents:</u> ndazole Sulfoxide:	:	LD50 (Guinea pi	



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Glyce Speci Resul	es	: Rabbit : No skin irritation	n
	us eye damage/eye assified based on av		
	onents:		
-	ndazole Sulfoxide:		
Speci Resul	es	: Rabbit : No eye irritatior	ı
Glyce	erine:		
Speci Resul	es t	: Rabbit : No eye irritatior	1
Resp	iratory or skin sens	itization	
May o Resp	sensitization cause an allergic skin iratory sensitization		
	assified based on av conents:	allable information.	
	ndazole Sulfoxide:		
Test Route	Гуре ss of exposure ssment	 Maximization T Dermal Probability or evrate in humans positive 	vidence of low to moderate skin sensitization
	Гуре es of exposure	· Maximization T : Dermal : Sensitizer	est
Germ	cell mutagenicity		
	assified based on av conents:	ailable information.	
	ndazole Sulfoxide: toxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
			omosomal aberration hinese hamster ovary cells e
	toxicity in vivo	: Test Type: Micr	



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		Species: Mouse Cell type: Bone marrow Result: negative
-	erine: toxicity in vitro	: Test Type: In vitro mammalian cell gene mutation test Result: negative
		Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: Chromosome aberration test in vitro Result: negative
		Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Result: negative
	i nogenicity lassified based on ava	ailable information.
Com	ponents:	
Albe	ndazole Sulfoxide:	
	cation Route sure time EL	 Mouse Oral 2 Years 400 mg/kg body weight negative
	cation Route sure time EL	 Rat Oral 2 Years 20 mg/kg body weight negative
Carci ment	nogenicity - Assess-	: No evidence of carcinogenicity in animal studies.
Glyc	erine:	
Spec Appli Expo Resu	cation Route sure time	: Rat : Ingestion : 2 Years : negative
-	oductive toxicity ected of damaging the	e unborn child.
Com	ponents:	
Albe	ndazole Sulfoxide:	
	ts on fertility	: Test Type: Fertility Species: Rat Application Route: Oral



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				Fertility: NOAEL:	30 mg/kg body weight on fertility.
E	Effects on fetal development		:		
					: Oral oxicity: LOAEL: 30 mg/kg body weight kic effects., Skeletal malformations., Mater-
					: Oral oxicity: LOAEL: 7 mg/kg body weight kic effects and adverse effects on the off-
	eproc	ductive toxicity - As- ent	:	Suspected of dam	naging the unborn child.
G	ilycer	ine:			
	-	on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
E	ffects	on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	o-fetal development : Ingestion
۲. ۱۱	TOT	single exposure			

STOT-single exposure

May cause damage to organs (Gastrointestinal tract, Central nervous system) if swallowed.

Components:

Albendazole Sulfoxide:

Routes of exposure	:	Oral
Target Organs	:	Gastrointestinal tract, Central nervous system
Assessment	:	May cause damage to organs.



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STOT	-repeated exposure	
		es (Gastrointestinal tract, Central nervous system, Immune system, repeated exposure if swallowed.
Com	oonents:	
Alber	ndazole Sulfoxide:	
	es of exposure et Organs	 Oral Gastrointestinal tract, Central nervous system, Immune system, Liver
Asses	ssment	: May cause damage to organs through prolonged or repeated exposure.
Repe	ated dose toxicity	
Comp	oonents:	
Alber	ndazole Sulfoxide:	
Speci LOAE Applic		: Rat : 168 mg/kg : Oral
Expos	sure time	: 4 Weeks
Targe Symp	et Organs toms	Gastrointestinal tract, TestisDiarrhea, Vomiting
Expos	EL cation Route sure time et Organs	 Dog 48 mg/kg Oral 4 Weeks Gastrointestinal tract Diarrhea, Vomiting
Speci	es	: Mouse
LÓAE		: 40 mg/kg
Applic	cation Route sure time	: Oral : 3 Months
Targe Symp	sure time et Organs toms	Blood, Liver, NoseHematologic effects, Liver effects
Expos	EL cation Route sure time et Organs	 Rat >= 30 mg/kg Oral 6 Months Blood Hematologic effects
Expos	EL cation Route sure time et Organs	 Dog 40 mg/kg Oral 6 Months Blood, Liver Hematologic effects, Liver effects
Speci NOAE	es EL	: Rat : 7 mg/kg



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Expo Targe	cation Route sure time et Organs otoms	: Oral : 60 d : Liver, Testis : Liver effects,	male reproductive effects
Glyce	erine:		
	EL	: Rat : 0,167 mg/l : 0,622 mg/l : inhalation (du : 13 Weeks	st/mist/fume)
		: Rat : 8.000 - 10.00 : Ingestion : 2 y) mg/kg
		: Rabbit : 5.040 mg/kg : Skin contact : 45 Weeks	
Not c Expe	ration toxicity lassified based on ava rience with human ex		
	ponents:		
Gene	ndazole Sulfoxide: eral Information	turbance, Hea	lergic reactions, hair loss, Gastrointestinal dis- idache, Dizziness
SKIN	contact		s: Skin lergic reactions y cause sensitization by skin contact.
Inges	stion	: Target Organ Symptoms: G pain Target Organ Symptoms: H Target Organ Symptoms: Iiv Target Organ	s: Gastrointestinal tract astrointestinal disturbance, Diarrhea, Abdominal s: Central nervous system eadache, Dizziness

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Albendazole Sulfoxide:

Toxicity to fish

: EC50 (Brachydanio rerio (zebrafish)): 0,042 mg/l Exposure time: 144 hrs

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	ty to daphnia and other ic invertebrates	:	Exposure time:	magna (Water flea)): 0,068 mg/l 48 h Test Guideline 202
Toxici plants	ty to algae/aquatic	:	0,024 mg/l Exposure time:	ocelis subcapitata (freshwater green alga)): 72 h Test Guideline 201
icity)	ctor (Acute aquatic tox-	:	10	
M-Fac toxicit	ctor (Chronic aquatic y)	:	10	
Glyce	erine:			
Toxici	ty to fish	:	LC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): 54.000 mg/l 96 h
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time:	magna (Water flea)): 1.955 mg/l 48 h
Toxici	ty to microorganisms	:	NOEC (Pseudo Exposure time: Method: DIN 38	
Persis	stence and degradabili	ty		
Comp	oonents:			
Glyce	rine:			
-	gradability	:	Biodegradation Exposure time:	
	cumulative potential			
<u>Comp</u>	oonents:			
Alben	dazole Sulfoxide:			
	on coefficient: n- ol/water	:	log Pow: 1,27 pH: 7	
Glyce	erine:			
Partiti	on coefficient: n- ol/water	:	log Pow: -1,75	
	ity in soil ta available			
	adverse effects ta available			



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SECTI	ION 13. DISPOSAL CONSI	DERA	TIONS				
D	isposal methods						
	aste from residues			f waste into sewer.			
С	ontaminated packaging	: E ha	 Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 				
SECTI	ON 14. TRANSPORT INFO	ORMAT	ION				
In	ternational Regulations						
U	NRTDG						
	N number	: U	N 3082				
P	roper shipping name	N	NVIRONMENT .O.S. Albendazole Su	ALLY HAZARDOUS SUBSTANCE, LIQUID,			
С	lass	: 9		,			
	acking group	:					
	abels nvironmentally hazardous	: 9 : ye	20				
	•	. у					
	ATA-DGR N/ID No.	÷ц	N 3082				
-	roper shipping name	: E		hazardous substance, liquid, n.o.s. Ilfoxide)			
С	lass	: 9		,			
	acking group	: 11					
	abels		iscellaneous				
	acking instruction (cargo	. 9	64				
P	acking instruction (passen- er aircraft)	: 90	54				
•	nvironmentally hazardous	: ye	es				
IN	/IDG-Code						
	N number		N 3082				
P	roper shipping name	N	NVIRONMENT .O.S. Ilbendazole Su	ALLY HAZARDOUS SUBSTANCE, LIQUID,			
С	lass	: 9					
	acking group	: 11					
La	abels	: 9					
	mS Code		-A, S-F				
M	larine pollutant	: ye	es				

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.





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Safet mixtu		nmental regulations/l	egislation specific for the substance or
	ntina. Carcinogenic Si	ubstances and Agents	: Not applicable
	ol of precursors and e aration of drugs.	essential chemicals for	the : Not applicable
The i	ngredients of this p	roduct are reported in	the following inventories:
AICS		: not determined	
DSL		: not determined	
DOL			

SECTION 16. OTHER INFORMATION

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Date format	:	dd.mm.yyyy

Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

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

: TLV (Threshold Limit Value)

Full text of other abbreviations

AR OEL :	Argentina. Occupational Exposure Limits
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AR OEL / CMP

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;



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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 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.

AR / Z8