

Version 3.1	Revision Date: 30.09.2023		9S Number: 36755-00013	Date of last issue: 04.04.2023 Date of first issue: 26.04.2018
SECTION	1. IDENTIFICATION			
Prod	uct name	:	Fenbendazole S	Solid Formulation
Man	ufacturer or supplier's	s deta	ils	
Com	pany	:	MSD	
Addr	ess	:		, 6th floor, Ciudad Autonoma rgentina C1013AAP
Telep	phone	:	908-740-4000	
Eme	rgency telephone	:	1-908-423-6000	
E-ma	ail address	:	EHSDATASTEV	VARD@msd.com
Reco	ommended use of the	chem	nical and restricti	ons on use
	ommended use rictions on use	:	Veterinary produ Not applicable	uct

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Reproductive toxicity		Category 2
reproductive textory	•	
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Liver, Stomach, Nervous system, Lymph nodes)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H373 May cause damage to organs (Liver, Stomach, Nervous system, Lymph nodes) through prolonged or repeated exposure if swallowed. H410 Very toxic to aquatic life with long lasting effects.



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Prec	autionary Statements	P202 Do not h and understoo P260 Do not b P273 Avoid re	reathe dust. ease to the environment. otective gloves/ protective clothing/ eye protec-
		Response: P308 + P313 I attention. P391 Collect s	F exposed or concerned: Get medical advice/ pillage.
		Storage: P405 Store loc	ked up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste
Othe	r hazards which do no	ot result in classifica	tion
Cont	contact with the eyes c act with dust can cause form explosive dust-air	mechanical irritation	
SECTION	3. COMPOSITION/INF	FORMATION ON ING	REDIENTS
Subs	tance / Mixture	: Mixture	

Components

Chemical name	CAS-No.	Concentration (% w/w)
fenbendazole	43210-67-9	>= 50 -< 70
Starch	9005-25-8	>= 30 -< 50
Magnesium stearate	557-04-0	>= 1 -< 5

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice 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 in eyes, rinse well with water.



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lf swa	allowed	:	If swallowed, DO Get medical atter				
Most important symptoms and effects, both acute and delayed		:	Suspected of dar unborn child. May cause dama exposure if swallo	oughly with water. naging fertility. Suspected of damaging the ge to organs through prolonged or repeated owed. can cause mechanical irritation or drying of			
Prote	ection of first-aiders	:	First Aid respond and use the record	the eyes can lead to mechanical irritation. ers should pay attention to self-protection, mmended personal protective equipment			
Notes	s to physician	:	when the potential for exposure exists (see section 8). Treat symptomatically and supportively.				
SECTION	5. FIRE-FIGHTING ME	ASI	JRES				
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical				
Unsu media	itable extinguishing	:	None known.				
	ific hazards during fire	:	concentrations, a potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a plosion hazard. bustion products may be a hazard to health.			
Haza ucts	rdous combustion prod-	:	Carbon oxides Nitrogen oxides (Sulfur oxides Silicon oxides Metal oxides	NOx)			
Spec	ific extinguishing meth-	•	Use extinguishing	measures that are appropriate to local cir-			

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- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.



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	ds and materials for nment and cleaning up	:	container for disp Avoid dispersal o with compressed Dust deposits sho surfaces, as these released into the Local or national disposal of this m employed in the o determine which Sections 13 and	f dust in the air (i.e., clearing dust surfaces

SECTION 7. HANDLING AND STORAGE

Technical measures	 Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation Advice on safe handling	 Use only with adequate ventilation. Do not breathe dust. 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 assessment Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	Keep in properly labeled containers. Store locked up.
Materials to avoid	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	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
fenbendazole	43210-67-9	TWA	100 µg/m3 (OEB	Internal
			2)	
Starch	9005-25-8	CMP	10 mg/m ³	AR OEL
	Further informa	ation: A4 - Not c	assifiable as a huma	n carcinogen
		TWA	10 mg/m ³	ACGIH

Ingredients with workplace control parameters



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Magn	esium stearate	557-04-0	CMP	10 mg/m³ lassifiable as a hu	AR OEL	
			TWA (Inhalable particulate matter)	10 mg/m ³	ACGIH	
			TWA (Respirable particulate matter)	3 mg/m³	ACGIH	
Engin	eering measures	compound. All engineerir design and o	ng controls shoul	trols to minimize e d be implemented dance with GMP p d the environment	by facility brinciples to	
Perso	onal protective equip	ment				
Filt	ratory protection ter type protection	exposure ass recommende	 If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type 			
	aterial	: Chemical-res	istant gloves			
Eye p	rotection	If the work er mists or aero Wear a faces	ivironment or act sols, wear the ap hield or other ful	e shields or goggle tivity involves dust opropriate goggles I face protection if the face with dusts	ty conditions, 5. ⁵ there is a	
	and body protection ne measures	: If exposure to eye flushing s working place When using o Wash contam The effective engineering o appropriate d industrial hyg	systems and safe e. do not eat, drink ninated clothing b operation of a fa controls, proper p legowning and do	ly during typical u ety showers close or smoke. pefore re-use. acility should inclu- personal protective econtamination pr medical surveillar	to the de review of e equipment, rocedures,	

Appearance	:	powder
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available



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	Melting	point/freezing point	:	No data available)
	Initial b range	oiling point and boiling	:	No data available)
	Flash p	point	:	Not applicable	
	Evapor	ration rate	:	Not applicable	
	Flamm	ability (solid, gas)	:	May form explosi handling or other	ve dust-air mixture during processing, means.
	Flamm	ability (liquids)	:	No data available)
		explosion limit / Upper ability limit	:	No data available	
		explosion limit / Lower ability limit	:	No data available	
	Vapor _I	pressure	:	Not applicable	
	Relativ	e vapor density	:	Not applicable	
	Relativ	e density	:	No data available)
	Density	/	:	No data available)
	Solubili Wat	ity(ies) ter solubility	:	soluble	
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	
	Decom	position temperature	:	No data available)
	Viscosi Visc	ity cosity, kinematic	:	Not applicable	
	Explosi	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance or	r mixture is not classified as oxidizing.
	Molecu	ılar weight	:	No data available	
	Particle	e size	:	No data available)

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.



ersion 1	Revision Date: 30.09.2023		S Number: 36755-00013	Date of last issue: 04.04.2023 Date of first issue: 26.04.2018	
Possibility of hazardous reac- tions		:	handling or other	ve dust-air mixture during processing, means. rong oxidizing agents.	
Condition	ons to avoid	:	 Heat, flames and sparks. Avoid dust formation. Oxidizing agents No hazardous decomposition products are known. 		
	atible materials ous decomposition s	:			
ECTION 1	1. TOXICOLOGICAL I	NFC	ORMATION		
Informa exposu	tion on likely routes of re	:	Inhalation Skin contact Ingestion Eye contact		
Acute f	•	bla	information		
Not clas	ssified based on availa	bie	information.		
	dazole: oral toxicity	:	LD50 (Rat): > 10.0	000 mg/kg	
			LD50 (Mouse): >		
Starch					
	oral toxicity	:	LD50 (Rat): > 5.00	00 mg/kg	
Acute c	lermal toxicity	:	LD50 (Rabbit): > 2	2.000 mg/kg	
Magne	sium stearate:				
-	oral toxicity	:	icity		
Acute c	lermal toxicity	:	LD50 (Rabbit): > 2 Remarks: Based o	2.000 mg/kg on data from similar materials	
	Skin corrosion/irritation Not classified based on available information.				
Compo	onents:				
fenben	dazole:				
Species Result	3	:	Rabbit No skin irritation		
	sium stearate:				
Magne					



	evision Date:).09.2023		DS Number: 36755-00013	Date of last issue: 04.04.2023 Date of first issue: 26.04.2018			
Result Remarks		 No skin irritation Based on data from similar materials 					
Sorious o	ye damage/eye	irritati	on				
	fied based on ava						
Compone	ents:						
fenbenda	zole:						
Species		:	Rabbit				
Result		:	No eye irritation				
Starch:							
Species		:	Rabbit				
Result		:	No eye irritation				
Magnesiu	m stearate:						
Species		:	Rabbit				
Result		:	No eye irritation				
Remarks		:	Based on data fi	om similar materials			
Skin sens	ory or skin sensi sitization fied based on ava						
Skin sens Not classif Respirato Not classif	itization fied based on avaination fied based on avain	ailable	information.				
Skin sens Not classif Respirato Not classif Compone	itization fied based on avaination fied based on avain	ailable	information.				
Skin sens Not classif Respirato Not classif <u>Compone</u> Starch:	sitization fied based on avai ory sensitization fied based on avai ents:	ailable	information.	st			
Skin sens Not classif Respirato Not classif Compone Starch: Test Type	sitization fied based on avaination fied based on avain fied based on avaination	ailable	information.	st			
Skin sens Not classif Respirato Not classif Compone Starch: Test Type Routes of Species	sitization fied based on avaination fied based on avain fied based on avaination	ailable	information. information. Maximization Te Skin contact Guinea pig	st			
Skin sens Not classif Respirato Not classif Compone Starch: Test Type Routes of	sitization fied based on avaination fied based on avain fied based on avaination	ailable	information. information. Maximization Te Skin contact	st			
Skin sens Not classif Respirato Not classif Compone Starch: Test Type Routes of Species Result	sitization fied based on avaination fied based on avain fied based on avaination	ailable	information. information. Maximization Te Skin contact Guinea pig	st			
Skin sens Not classif Respirato Not classif Compone Starch: Test Type Routes of Species Result	sitization fied based on ava fied based on ava fied based on ava ents: exposure	ailable	information. information. Maximization Te Skin contact Guinea pig				
Skin sens Not classif Respirato Not classif Compone Starch: Test Type Routes of Species Result Magnesiu Test Type Routes of	sitization fied based on ava fied based on ava fied based on ava ents: exposure m stearate:	ailable	information. information. Maximization Te Skin contact Guinea pig negative Maximization Te Skin contact				
Skin sens Not classif Respirato Not classif Compone Starch: Test Type Routes of Species Result Magnesiu Test Type Routes of Species	sitization fied based on ava fied based on ava fied based on ava ents: exposure m stearate:	ailable	information. information. Maximization Te Skin contact Guinea pig negative Maximization Te Skin contact Guinea pig	st			
Skin sens Not classif Respirato Not classif Compone Starch: Test Type Routes of Species Result Magnesiu Test Type Routes of Species Method	sitization fied based on ava fied based on ava fied based on ava ents: exposure m stearate:	ailable	information. information. Maximization Te Skin contact Guinea pig negative Maximization Te Skin contact Guinea pig OECD Test Guid	st			
Skin sens Not classif Respirato Not classif Compone Starch: Test Type Routes of Species Result Magnesiu Test Type Routes of Species	sitization fied based on ava fied based on ava fied based on ava ents: exposure m stearate:	ailable	information. information. Maximization Te Skin contact Guinea pig negative Maximization Te Skin contact Guinea pig OECD Test Guid negative	st			
Skin sens Not classif Respirato Not classif Compone Starch: Test Type Routes of Species Result Magnesiu Test Type Routes of Species Method Result Remarks	sitization fied based on availation fied based on availation fied based on availation fied based on availation ents: exposure	ailable	information. information. Maximization Te Skin contact Guinea pig negative Maximization Te Skin contact Guinea pig OECD Test Guid negative	st deline 406			
Skin sens Not classif Respirato Not classif Compone Starch: Test Type Routes of Species Result Magnesiu Test Type Routes of Species Method Result Remarks Germ cell	sitization fied based on ava fied based on ava fied based on ava ents: exposure m stearate:	ailable ailable	information. information. Maximization Te Skin contact Guinea pig negative Maximization Te Skin contact Guinea pig OECD Test Guid negative Based on data fi	st deline 406			
Skin sens Not classif Respirato Not classif Compone Starch: Test Type Routes of Species Result Magnesiu Test Type Routes of Species Method Result Remarks Germ cell	sitization fied based on available ory sensitization fied based on available exposure m stearate: exposure mutagenicity fied based on available	ailable ailable	information. information. Maximization Te Skin contact Guinea pig negative Maximization Te Skin contact Guinea pig OECD Test Guid negative Based on data fi	st deline 406			
Skin sens Not classif Respirato Not classif Compone Starch: Test Type Routes of Species Result Magnesiu Test Type Routes of Species Method Result Remarks Germ cell Not classif	sitization fied based on available ory sensitization fied based on available exposure m stearate: exposure mutagenicity fied based on available ents:	ailable ailable	information. information. Maximization Te Skin contact Guinea pig negative Maximization Te Skin contact Guinea pig OECD Test Guid negative Based on data fi	st deline 406			



ersion .1	Revision Date: 30.09.2023	SDS Number: 2736755-00013	Date of last issue: 04.04.2023 Date of first issue: 26.04.2018
		Result: negat	ive
		Test Type: Dl Result: negat	
		Test Type: Cl Result: negat	nromosomal aberration ive
			mouse lymphoma cells ivation: Metabolic activation
Starc	:h:		
Geno	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive
Magr	nesium stearate:		
Geno	toxicity in vitro	Result: negat	vitro mammalian cell gene mutation test ive sed on data from similar materials
		Method: OEC Result: negat	
		Remarks: Bas	sed on data from similar materials
		Result: negat	acterial reverse mutation assay (AMES) ive sed on data from similar materials
	inogenicity		
	lassified based on ava	ailable information.	
	ponents:		
fenbe	endazole:		

Species Application Route Exposure time NOAEL Result	:	Mouse oral (feed) 2 Years 405 mg/kg body weight negative
Species Application Route Exposure time NOAEL Result Target Organs	:	Rat Oral 2 Years 5 mg/kg body weight negative Lymph nodes, Liver

Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging the unborn child.



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	<u>Comp</u>	onents:			
	fenbei	ndazole:			
	Effects on fertility		:	Species: Rat Application Route General Toxicity F	Parent: NOAEL: 15 mg/kg body weight 45 mg/kg body weight
	Effects on fetal development		:	Result: Embryoto	nale
				Species: Rabbit Application Route	oxicity: NOAEL: 25 mg/kg body weight
				Species: Rabbit Application Route	ro-fetal development : Oral oxicity: LOAEL: 63 mg/kg body weight
				Species: Rat Application Route Developmental To	ro-fetal development : Oral oxicity: NOAEL: 120 mg/kg body weight s on fetal development.
	Reproo sessm	ductive toxicity - As- ent	:	fertility, based on	f adverse effects on sexual function and animal experiments., Some evidence of n development, based on animal
	Magne	esium stearate:			
	-	s on fertility	:	reproduction/dever Species: Rat Application Route Method: OECD To Result: negative	
	Effects	s on fetal development	:	Species: Rat Application Route Result: negative	ro-fetal development : Ingestion on data from similar materials



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STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

May cause damage to organs (Liver, Stomach, Nervous system, Lymph nodes) through prolonged or repeated exposure if swallowed.

Components:

fenbendazole:

Routes of exposure	: Ingestion
Target Organs	: Liver, Stomach, Nervous system, Lymph nodes
Assessment	: May cause damage to organs through prolonged or repeated
	exposure.

Repeated dose toxicity

Components:

fenbendazole:

Species LOAEL Application Route Exposure time Target Organs	: Rat : 500 mg/kg : Oral : 2 Weeks : Kidney, Liver
Species NOAEL Application Route Exposure time Remarks	: Rat : > 2.500 mg/kg : Oral : 30 Days : No significant adverse effects were reported
Species LOAEL Application Route Exposure time Target Organs Symptoms	: Rat : 1.600 mg/kg : Oral : 90 Days : Central nervous system : Tremors
Species NOAEL LOAEL Exposure time Target Organs	 Dog 4 mg/kg 8 mg/kg 6 Months Stomach, Nervous system, Lymph nodes
Starch:	
Species NOAEL Application Route Exposure time Method	 Rat >= 2.000 mg/kg Skin contact 28 Days OECD Test Guideline 410
Magnesium stearate:	
0	. Det

Species

: Rat



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NOAEL Application Route Exposure time Remarks		 > 100 mg/kg Ingestion 90 Days Based on data from similar materials 						
	Aspiration toxicity Not classified based on available information.							
<u>Comp</u>	Components:							
	ndazole: piration toxicity classifica	atio	n					
Expe	rience with human exp	osi	ire					
Comp	oonents:							
fenbe	ndazole:							
Ingest	tion	:	Symptoms: Rapid	I respiration, Salivation, anorexia, Diarrhea				
	12. ECOLOGICAL INFO							
	oonents:							
	ndazole: ty to fish	:	LC50 (Lepomis m Exposure time: 2'	acrochirus (Bluegill sunfish)): 0,009 mg/l I d				
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T					
M-Fac icity)	ctor (Acute aquatic tox-	:	100					
Toxici	ty to daphnia and other ic invertebrates (Chron- city)		NOEC (Daphnia r Exposure time: 2 Method: OECD T					
M-Fac toxicit	ctor (Chronic aquatic y)	:	10					
Magn	esium stearate:							
Toxici	ty to fish	:	Exposure time: 48 Method: DIN 384					
	ty to daphnia and other ic invertebrates	:	Exposure time: 47 Test substance: V Method: Directive	agna (Water flea)): > 1 mg/l 7 h Vater Accommodated Fraction 67/548/EEC, Annex V, C.2. on data from similar materials				



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			No toxicity at the	limit of solubility.
	Toxicity to algae/aquatic plants		mg/l Exposure time: 7 Test substance: Method: OECD [–] Remarks: Based	chneriella subcapitata (green algae)): > 1 2 h Water Accommodated Fraction Fest Guideline 201 on data from similar materials limit of solubility.
			mg/l Exposure time: 7 Test substance: Method: OECD	kirchneriella subcapitata (green algae)): > 1 2 h Water Accommodated Fraction Fest Guideline 201 on data from similar materials
Toxici	Toxicity to microorganisms		EC10 (Pseudomonas putida): > 100 mg/l Exposure time: 16 h Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials	
Persi	stence and degradabi	lity		
<u>Com</u>	oonents:			
-	esium stearate: gradability	:	Result: Not biode Remarks: Based	egradable on data from similar materials
Bioad	cumulative potential			
Comp	oonents:			
Partiti	endazole: on coefficient: n- ol/water	:	log Pow: 3,32	
Partiti	esium stearate: on coefficient: n- ol/water	:	log Pow: > 4	
Mobil	lity in soil			
Comp	oonents:			
Distrik	endazole: oution among environ- al compartments	:	log Koc: 3,8 - 4,7 Method: FDA 3.0	
	adverse effects ata available			



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SECTION	13. DISPOSAL CON				
SECTION		SIDERATIONS			
Dispo	osal methods				
Waste from residues		•	of waste into sewer. ccordance with local regulations.		
Contaminated packaging		handling site fo	Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.		

International Regulations

UNRTDG		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (fenbendazole)
Class	:	9
Packing group	:	
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (fenbendazole)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen- ger aircraft)	:	956
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
		(fenbendazole)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	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.





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SECTION 1	5. REGULATORY INF	FORMATION					
•	Safety, health and environmental regulations/legislation specific for the substance or mixture						
•	Argentina. Carcinogenic Substances and Agents : Not applicable Registry.						
Control of precursors and essential chemicals for the : Not applicable preparation of drugs.							
The ingredients of this product are reported in the following inventories:							
AICS		: not determined					
DSL		: not determined					

: not determined

SECTION 16. OTHER INFORMATION

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Date format	:	dd.mm.yyyy

Further information

IECSC

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

Full text of other abbreviations

ACGIH AR OEL	USA. ACGIH Threshold Limit Values (TLV) Argentina. Occupational Exposure Limits
ACGIH / TWA AR OEL / CMP	8-hour, time-weighted average TLV (Threshold Limit Value)

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration: ICAO - International Civil Aviation Organization: IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships;



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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.

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