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1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name	:	Albendazole Sulfoxide (10%) Formulation
Supplier's company name, and Company name of supplier		ess and phone number MSD
Address	:	Kumagaya, Saitama Prefecture , Xicheng 810 MSD Co., Ltd. Menuma factory
Telephone	:	048-588-8411
E-mail address	:	EHSDATASTEWARD@msd.com
Emergency telephone number	:	+1-908-423-6000

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

2. HAZARDS IDENTIFICATION

GHS classification of chemical product

Skin sensitisation	:	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





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Haza	rd statements	H361d Suspec H371 May cau Central nervou H373 May cau Central nervou longed or repe	se an allergic skin reaction. ted 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 vapours. in thoroughly after handling. at, drink or smoke when using this product. nated work clothing should not be allowed out of ease to the environment. otective gloves/ protective clothing/ eye protec-
		P308 + P311 I CENTER/ doct P333 + P313 I vice/ attention.	f skin irritation or rash occurs: Get medical ad- Fake off contaminated clothing and wash it befor
		Storage: P405 Store loc	sked up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste
	r hazards which do n known.	ot result in classifica	tion

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
Albendazole Sulfoxide	54029-12-8	>= 10 - < 20	-
Polyethylene glycol sorbitan	9005-64-5	>= 0.1 - < 1	7-110, 8-55, 8-



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monolaurate			55	
Benzoic acid	65-85-0	>= 0.1 - < 1	3-1397	

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	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
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. Suspected of damaging the unborn child. May cause damage to organs if swallowed. May cause damage to organs through prolonged or repeated exposure if swallowed.
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.
5. FIREFIGHTING 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) Sulphur oxides



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	pecific extinguishin ds	g meth- :	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. Iged containers from fire area if it is safe to do
	pecial protective ec or firefighters	quipment :		e, wear self-contained breathing apparatus. tective equipment.
6. AC	CIDENTAL RELEA	SE MEASU	RES	
tiv	ersonal precautions ve equipment and e ency procedures		Follow safe hand	tective equipment. ling advice (see section 7) and personal pro- t recommendations (see section 8).
E	nvironmental preca	utions :	Prevent spreadir barriers). Retain and dispo	eakage 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
	lethods and materia ontainment and clea		For large spills, p ment to keep ma be pumped, store Clean up remain bent. Local or national posal of this mate employed in the mine which regul Sections 13 and	rt absorbent material. provide dyking or other appropriate contain- terial from spreading. If dyked material can a recovered material in appropriate container. Ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.
7. HAI	NDLING AND STO	RAGE		
Н	andling			
Т	echnical measures	:		measures under EXPOSURE RSONAL PROTECTION section.
	ocal/Total ventilatio dvice on safe hand		Use only with ad Do not get on ski Do not breathe n Do not swallow. Avoid contact with Wash skin thorou	equate ventilation. n or clothing. nist or vapours.



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Avoidance of contact Hygiene measures		sessment Do not ea Take care environme Oxidizing If exposur flushing sy place. When usin Contamin workplace Wash con The effect engineerin appropria industrial	t, drink or smoke when using this product. to prevent spills, waste and minimize release to the ent. agents to chemical is likely during typical use, provide eye ystems and safety showers close to the working and do not eat, drink or smoke. ated work clothing should not be allowed out of the
Stora	age		
Cond	litions for safe storage	Store lock	roperly labelled containers. ed up. ccordance with the particular national regulations.
Mate	rials to avoid	: Do not sto	ore with the following product types: idizing agents
Pack	aging material	: Unsuitable	e material: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work en-
vironment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Concentra- tion standard / Permissible con- centration	Basis
Albendazole Sulfoxide	54029-12-8	TWA	45 µg/m3 (OEB 3)	Internal
	Further informa	ation: DSEN	• •	
		Wipe limit	100 µg/100 cm2	Internal
Benzoic acid	65-85-0	TWA (Inhal- able fraction and vapor)	0.5 mg/m3	ACGIH

Engineering measures

: Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless 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.



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			are required to co	
Perso	onal protective equip	ment		
Resp	iratory protection	:	sure assessment	exhaust ventilation is not available or expo- demonstrates exposures outside the rec- lines, use respiratory protection.
	ter type protection	:		lates and organic vapour type
Ma	aterial	:	Chemical-resistar	nt gloves
	emarks protection	:	If the work enviro mists or aerosols Wear a faceshield	gloving. ses with side shields or goggles. nment or activity involves dusty conditions, , wear the appropriate goggles. d or other full face protection if there is a t contact to the face with dusts, mists, or
Skin a	and body protection	:	Work uniform or I Additional body g task being perform posable suits) to a	arments should be used based upon the med (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. degowning techniques to remove potentially
. PHYSIC		PROF	PERTIES	
Physi	cal state	:	suspension	

i nyelear etate	•	edependien
Colour	:	white
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Boiling point, initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Lower explosion limit and uppe Upper explosion limit / Up-		

SAFETY DATA SHEET



Albendazole Sulfoxide (10%) Formulation

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		ver explosion limit / ver flammability limit	:	No data available	
	Flash p	point	:	Not applicable	
	Decom	position temperature	:	No data available	
	рН		:	No data available	
	Evapor	ation rate	:	No data available	
	Auto-ig	nition temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	No data available	
	Solubili Wat	ity(ies) er solubility	:	No data available	
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
	Vapour	pressure	:	No data available	
		v and / or relative densit ative density	у :	No data available	
	Den	sity	:	No data available	
	Relativ	e vapour density	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidiziı	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
		e characteristics ticle size	:	No data available	

10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Can react with strong oxidizing agents.
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.



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I. TOXIC	OLOGICAL INFORM	ΑΤΙΟΙ	N	
Inform expos	nation on likely routes sure	of :	Inhalation Skin contact Ingestion Eye contact	
	e toxicity assified based on ava	ilable	information.	
<u>Produ</u>	<u>ict:</u>			
Acute	oral toxicity	:	Acute toxicity e Method: Calcula	stimate: > 2,000 mg/kg ation method
<u>Comp</u>	oonents:			
Alben	dazole Sulfoxide:			
Acute	oral toxicity	:	LD50 (Mouse):	1,500 mg/kg
			LD50 (Rat): 2,4	00 mg/kg
	toxicity (other routes istration)	of :	LD50 (Rat): 265 Application Rou	
Polye	thylene glycol sorbi	tan m	onolaurate:	
-	inhalation toxicity	:	LC50 (Rat): > 5 Exposure time: Test atmosphere	4 h
Benzo	oic acid:			
Acute	oral toxicity	:	LD50 (Rat): 2,2 Method: OECD	50 mg/kg Test Guideline 401
Acute	inhalation toxicity	:	LC50 (Rat): > 1 Exposure time: Test atmosphere	4 h
Acute	dermal toxicity	:	LD50 (Rabbit): Assessment: TI toxicity	> 2,000 mg/kg ne substance or mixture has no acute dermal

Components:

Albendazole Sulfoxide:



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Speci Resu		: Rabbit : No skin irrita	ation
Polye	ethylene glycol sorb	itan monolaurate:	
Speci Metho Resu	ies od	: Rabbit	Guideline 404 ation
Benz	oic acid:		
Speci Resu		: Guinea pig : Skin irritatio	n
	us eye damage/eye lassified based on ava		
Com	ponents:		
	ndazole Sulfoxide:		
Speci Resu		: Rabbit : No eye irrita	ition
Polye Speci Resu		itan monolaurate: : Rabbit : No eye irrita	ition
Benz	oic acid:		
Speci Resu		: Rabbit : Irreversible	effects on the eye
Resp	iratory or skin sensi	tisation	
	sensitisation cause an allergic skin	reaction.	
Resp	iratory sensitisation		
Com	oonents:		
Alber	ndazole Sulfoxide:		
Test ⁻	Type sure routes	: Maximisatio : Dermal	n Test
	ssment	: Probability of	or evidence of low to moderate skin sensitisation
Resu	lt	rate in huma : positive	ans
Test	Type sure routes	: Maximisatio	n Test



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Daha			
-	ethylene glycol sorb	: Maximisation	Toot
Test T Expos	sure routes	: Skin contact	
Speci	es	: Guinea pig	
Metho Resul		: OECD Test : negative	Guideline 406
Benz	oic acid:		
Test			node assay (LLNA)
Expos	sure routes es	: Skin contact : Mouse	
Resul		: negative	
	a cell mutagenicity lassified based on ava	ailable information.	
<u>Com</u>	oonents:		
Alber	ndazole Sulfoxide:		
Geno	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) tive
			Chromosomal aberration : Chinese hamster ovary cells itive
Geno	toxicity in vivo	: Test Type: N Species: Mo	/licronucleus test use
		Cell type: Bo Result: nega	
Polye	ethylene glycol sorb	itan monolaurate:	
Geno	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) tive
Benz	oic acid:		
Geno	toxicity in vitro	: Test Type: C Result: equiv	Chromosome aberration test in vitro vocal
		Test Type: ir Result: nega	n vitro micronucleus test tive
Geno	toxicity in vivo	Species: Ra	Rodent dominant lethal test (germ cell) (in viv t Route: Ingestion



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Carci	inogenicity		
Not c	lassified based on avai	lable information.	
Com	ponents:		
Alber	ndazole Sulfoxide:		
	cation Route sure time EL	: Mouse : Oral : 2 Years : 400 mg/kg bo : negative	dy weight
	cation Route sure time EL	: Rat : Oral : 2 Years : 20 mg/kg bod : negative	y weight
Carci ment	nogenicity - Assess-	: No evidence of	of carcinogenicity in animal studies.
Repr	oductive toxicity		
Susp	ected of damaging the	unborn child.	
Com	ponents:		
Alber	ndazole Sulfoxide:		
Effect	ts on fertility		-
Effect ment	ts on foetal develop-	: Test Type: De Species: Rat Application Re Development	

Test Type: Development Species: Rabbit Application Route: Oral Developmental Toxicity: LOAEL: 30 mg/kg body weight Result: Embryotoxic effects., Skeletal malformations, Maternal toxicity observed.

Result: Embryotoxic effects., Skeletal malformations

Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 5.8 mg/kg body weight Result: Effects on postnatal development

Test Type: Development



1	Revision Date: 2024/09/28	-	S Number: 84321-00022	Date of last issue: 2024/07/06 Date of first issue: 2018/11/30
				Toxicity: LOAEL: 7 mg/kg body weight oxic effects and adverse effects on the off-
Repro sessr	oductive toxicity - As- nent	:	Suspected of da	maging the unborn child.
Polye	ethylene glycol sorbita	an m	onolaurate:	
	ts on foetal develop-	:		
Benz	oic acid:			
-	ts on fertility	:	Test Type: Four Species: Rat Application Rou Result: negative	
	C - single exposure	s (Ga	astrointestinal tra	ct Central nervous system) if swallowed
May o <u>Com</u>	cause damage to organ	is (Ga	astrointestinal tra	ct, Central nervous system) if swallowed.
May o <u>Com</u> Alber Expo Targe	cause damage to organ	is (Ga : :	Oral	tract, Central nervous system
May of Common Co	cause damage to organ ponents: ndazole Sulfoxide: sure routes et Organs ssment Γ - repeated exposure	: : : s (Ga	Oral Gastrointestinal May cause dam astrointestinal tra	tract, Central nervous system age to organs. ct, Central nervous system, Immune system
May of Com Alber Expo Targe Asses STOT May of Liver)	cause damage to organ ponents: ndazole Sulfoxide: sure routes et Organs ssment F - repeated exposure cause damage to organ	: : : s (Ga	Oral Gastrointestinal May cause dam astrointestinal tra	tract, Central nervous system age to organs. ct, Central nervous system, Immune system
May of Com Expo Targe Asses STOT May of Liver) Com	cause damage to organ ponents: ndazole Sulfoxide: sure routes et Organs ssment r - repeated exposure cause damage to organ o through prolonged or r	: : : s (Ga	Oral Gastrointestinal May cause dam astrointestinal tra	tract, Central nervous system age to organs. ct, Central nervous system, Immune system
May of <u>Com</u> Alber Expo Targe Asses STOT May of Liver) <u>Com</u> Alber Expo	cause damage to organ ponents: ndazole Sulfoxide: sure routes et Organs ssment r - repeated exposure cause damage to organ through prolonged or r ponents:	: : : s (Ga	Oral Gastrointestinal May cause dam astrointestinal tra ted exposure if s Oral Gastrointestinal	tract, Central nervous system age to organs. ct, Central nervous system, Immune system
May of <u>Com</u> Expo Targe Asses STOT May of Liver) <u>Com</u> Alber Expo Targe	cause damage to organ ponents: ndazole Sulfoxide: sure routes et Organs ssment F - repeated exposure cause damage to organ through prolonged or r ponents: ndazole Sulfoxide: sure routes	: : : s (Ga	Oral Gastrointestinal May cause dam astrointestinal tra ted exposure if s Oral Gastrointestinal tem, Liver	tract, Central nervous system age to organs. ct, Central nervous system, Immune system wallowed.
May of <u>Com</u> Expo Targe Asses STOT May of Liver) <u>Com</u> Alber Expo Targe Asses	cause damage to organ ponents: ndazole Sulfoxide: sure routes et Organs ssment F - repeated exposure cause damage to organ through prolonged or r ponents: ndazole Sulfoxide: sure routes et Organs	: : : s (Ga	Oral Gastrointestinal May cause dam astrointestinal tra ted exposure if s Oral Gastrointestinal tem, Liver May cause dam	tract, Central nervous system age to organs. ct, Central nervous system, Immune system wallowed. tract, Central nervous system, Immune sys

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Repe	ated dose toxicity			
Com	ponents:			
	ndazole Sulfoxide:			
Expo		:	Rat 168 mg/kg Oral 4 Weeks Gastrointestina	Il tract, Testis
Symp		:	Diarrhoea, Von	
Expos	EL cation Route sure time et Organs		Dog 48 mg/kg Oral 4 Weeks Gastrointestina Diarrhoea, Von	
Expos	EL cation Route sure time et Organs		Mouse 40 mg/kg Oral 3 Months Blood, Liver, N Hematologic ef	ose fects, Liver effects
Expos	EL cation Route sure time et Organs		Rat >= 30 mg/kg Oral 6 Months Blood Hematologic ef	fects
Expos	EL cation Route sure time et Organs		Dog 40 mg/kg Oral 6 Months Blood, Liver Hematologic ef	fects, Liver effects
Expo	EL cation Route sure time et Organs		Rat 7 mg/kg Oral 60 d Liver, Testis Liver effects, m	nale reproductive effects
Benz	oic acid:			
Speci LOAE Applic	ies	:	Rat < 0.025 mg/l inhalation (dust 28 Days	t/mist/fume)



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Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

Albendazole Sulfoxide:	
General Information :	Symptoms: Allergic reactions, hair loss, Gastrointestinal dis- turbance, Headache, Dizziness
Skin contact :	Target Organs: Skin Symptoms: Allergic reactions Remarks: May cause sensitisation by skin contact.
Ingestion :	Target Organs: Gastrointestinal tract Symptoms: Gastrointestinal disturbance, Diarrhoea, Ab- dominal pain
	Target Organs: Central nervous system Symptoms: Headache, Dizziness
	Target Organs: Liver Symptoms: liver function change
	Target Organs: Immune system Symptoms: immune system effects

12. ECOLOGICAL INFORMATION

Components:

Albendazole Sulfoxide:

Toxicity to fish	:	EC50 (Brachydanio rerio (zebrafish)): 0.042 mg/l Exposure time: 144 hrs
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.068 mg/l Exposure time: 48 h Method: OECD Test 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- icity)	:	10
M-Factor (Chronic aquatic	:	10



rsion 1	Revision Date: 2024/09/28		S Number: 84321-00022	Date of last issue: 2024/07/06 Date of first issue: 2018/11/30
toxicit	- /		•	
	thylene glycol sorbitai ty to fish	י m :	LL50 (Danio rerio Exposure time: 9	o (zebra fish)): > 100 mg/l 6 h ⁻ est Guideline 203
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2	magna (Water flea)): 10 mg/l 1 d ⁻ est Guideline 211
Benzo	pic acid:			
Toxici	ty to fish	:	LC50 (Lepomis n Exposure time: 9	nacrochirus (Bluegill sunfish)): 44.6 mg/l 6 h
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia r Exposure time: 4 Method: EPA-66	
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 7	rchneriella subcapitata (green algae)): > 3 2 h ⁻ est Guideline 201
			mg/l Exposure time: 7	chneriella subcapitata (green algae)): 3.4 2 h ⁻ est Guideline 201
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2	magna (Water flea)): 25 mg/l 1 d ⁻ est Guideline 211
Toxici	ty to microorganisms	:	IC50: > 1,000 mg Exposure time: 3 Method: OECD 1	
Persis	stence and degradabili	ty		
<u>Comp</u>	oonents:			
Polye	thylene glycol sorbita	ח m	onolaurate:	
-	gradability	:	Result: Readily b Biodegradation: Exposure time: 2	> 60 %
Benzo	pic acid:			
	gradability	:	Result: rapidly de Biodegradation: Exposure time: 3	89.5 %



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	cumulative potentia	I	
<u>Comp</u>	onents:		
Partiti	dazole Sulfoxide: on coefficient: n- bl/water	: log Pow: 1 pH: 7	.27
Partiti	bic acid: on coefficient: n- bl/water	: log Pow: 1	.88
	ity in soil ta available		
	dous to the ozone la	ıyer	
	adverse effects ta available		
3. DISPO	SAL CONSIDERATIO	ONS	
Dispo	sal methods		
Waste	from residues		f in accordance with local regulations.
Conta	minated packaging	: Empty cor dling site f	pose of waste into sewer. tainers should be taken to an approved waste har or recycling or disposal. rwise specified: Dispose of as unused product.
4. TRANS	SPORT INFORMATIC	N	
Intern	ational Regulations		
UNRT	DG		
UN nu		N.O.S.	MENTALLY HAZARDOUS SUBSTANCE, LIQUID zole Sulfoxide)
Labels	ng group s onmentally hazardous	: 9 : III : 9 : yes	
IATA-	•	. ,00	
UN/ID			entally hazardous substance, liquid, n.o.s. zole Sulfoxide)
Class Packir Labels	ng group	: 9 : III : Miscellane	
	ng instruction (cargo	: 964	



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airci	aft)			
Pac	king instruction (passen-	:	964	
	aircraft)			
Env	ironmentally hazardous	:	yes	
IMD	G-Code			
UN	number	:	UN 3082	
Prop	per shipping name	:	ENVIRONMENT	ALLY HAZARDOUS SUBSTANCE, LIQUID,
			N.O.S.	
			(Albendazole Sul	foxide)
Clas	S	:	9	
Pac	king group	:		
Lab	els	:	9	
EmS	S Code	:	F-A, S-F	
Mar	ine pollutant	:	yes	

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

Not applicable for product as supplied.

National Regulations

Refer to section 15 for specific national regulation.

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.

ERG Code

: 171

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicable to dangerous materials / designated flammables.

Chemical Substance Control Law

Priority Assessment Chemical Substance

Chemical name	Number
Mono(or poly)ether of (mono ester of anhydro(or dianhydro)glucitol and	222
dodecanoic acid) and alpha-hydro-omega-hydroxypoly(oxyethylene)	

Industrial Safety and Health Law

Harmful Substances Prohibited from Manufacture

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Substances Prevented From Impairment of Health

Not applicable



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on Ex	lar concerning Info cisting Chemicals ha		s having Mutagenicity ·	- Annex 2: Informat
on No	otified Substances I	rmation on Chemicals naving Mutagenicity	having Mutagenicity	- Annex 1: Informa
	pplicable			
	tances Subject to be 57-2 (Enforcement			
	nical name		Concentration (%)	Remarks
benz	oic acid		>=0.1 - <1	From April 1st, 2
Subs	tances Subject to b	e Indicated Names		
Not a	pplicable			
Skin a	and Eye Damage Sı	ubstances for PPE Re	quirements (ISHL MO	Art. 594-2)
Not a	pplicable			
tions	-	s (Article 577-2 of the	Occupational Health a	and Safety Regula-
Ordin		of Hazards Due to S	pecified Chemical Sub	stances
	ance on Preventior	of Lead Poisoning		
	ance on Preventior	of Tetraalkyl Lead P	bisoning	
	ance on Preventior	n of Organic Solvent F	Poisoning	
Subs	rcement Order of the tances)	e Industrial Safety and	d Health Law - Attache	d table 1 (Dangero
Poisc		us Substances Contr	ol Law	
Act o viron	n Confirmation, etc		of Specific Chemical Sthe Management Ther	
-	Pressure Gas Safet	y Act		
-	osive Control Law			
Misce		substances and articles nd its Attached Table 1	s (Article 2 and 3 of rules)	s on shipping and sto



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Aviation Law

Miscellaneous dangerous substances and articles (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)

Marine Pollution and Sea Disaster Prevention etc Law

Bulk transportation	:	Noxious liquid substance(Category Z)
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Pack transportation : Classified as marine pollutant

Narcotics and Psychotropics Control Act

Narcotic or Psychotropic Raw Material (Export / Import Permission) Not applicable Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable

Waste Disposal and Public Cleansing Law

Industrial waste

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

16. OTHER INFORMATION

In this SDS, if the concentration of substances subject to notification under the Industrial Safety and Health Law is indicated as a range, it includes cases where it is a trade secret.

Further information

Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/		
Date format	:	yyyy/mm/dd		
Full text of other abbreviations				
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)		
ACGIH / TWA	:	8-hour, time-weighted average		

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory con-



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centration; 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.

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