

Alendronate Liquid Formulation

Version 3.1	Revision Date: 2020/10/16		S Number: 209-00017	Date of last issue: 2020/03/23 Date of first issue: 2014/11/05
1. PRODL	JCT AND COMPANY ID	ENT	IFICATION	
Chen	nical product name	:	Alendronate L	iquid Formulation
	olier's company name, a bany name of supplier		-	
Addro	ess	:	30 Hudson St Jersey City, N	reet, 33nd floor ew Jersey, U.S.A 07302
Telep	bhone	:	551-430-6000	
E-ma	il address	:	EHSSTEWAR	D@organon.com
Emer	gency telephone number	r :	215-631-6999	
Reco	ommended use of the cl	hem	ical and restrie	ctions on use
Reco	mmended use	:	Pharmaceutic	al

2. HAZARDS IDENTIFICATION

GHS classification of chemical product

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

GHS label elements

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
Alendronate	121268-17-5	>= 0.1 - < 0.25	

4. FIRST AID MEASURES

General advice	V V	n the case of accident or if you feel unwell, seek medical ad- rice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled In case of skin contact	C : Ir o	f inhaled, remove to fresh air. Set medical attention. n case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes.



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In case of eye contact If swallowed		:	Flush eyes with w Get medical atten	fore reuse. shoes before reuse. rater as a precaution. tion if irritation develops and persists. NOT induce vomiting.		
and	t important symptoms effects, both acute and ved	:	Rinse mouth thoroughly with water. None known.			
Prote	delayed 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).			
	es to physician	:	Treat symptomati	cally and supportively.		
5. FIREF	IGHTING MEASURES					
Suita	Suitable extinguishing media		Water spray Alcohol-resistant Carbon dioxide (C Dry chemical			
Unsı med	uitable extinguishing ia	:	None known.			
Spec fight	cific hazards during fire- ing	:	Exposure to com	oustion products may be a hazard to health.		
Haza	ardous combustion prod-	:	Carbon oxides Metal oxides			
Spec ods	Specific extinguishing meth- ods		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		
	cial protective equipment refighters	:	Evacuate area. In the event of fire	e, wear self-contained breathing apparatus. rective equipment.		
6. ACCID	ENTAL RELEASE MEA	SUF	RES			
tive	conal precautions, protec- equipment and emer- cy procedures	• :	Follow safe handl	ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).		
Envi	Environmental precautions			he environment. akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil		

Methods and materials for containment and cleaning up : Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can



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		Clean up ren bent. Local or natio posal of this employed in mine which r Sections 13 a	store recovered material in appropriate container. naining materials from spill with suitable absor- onal regulations may apply to releases and dis- material, as well as those materials and items the cleanup of releases. You will need to deter- egulations are applicable. and 15 of this SDS provide information regarding or national requirements.
7. HANDL	ING AND STORAGE		
Hand	lling		
Tech	nical measures	CONTROLS	ring measures under EXPOSURE /PERSONAL PROTECTION section.
	/Total ventilation e on safe handling	: Avoid inhalat Do not swall Avoid contac Avoid prolon Handle in ac practice, bas sessment	t with eyes. ged or repeated contact with skin. cordance with good industrial hygiene and safety ed on the results of the workplace exposure as- prevent spills, waste and minimize release to the
	lance of contact ene measures	flushing syste place. When using of Wash contan The effective engineering of appropriate of industrial hyg	ents o chemical is likely during typical use, provide eye ems and safety showers close to the working do not eat, drink or smoke. ninated clothing before re-use. operation of a facility should include review of controls, proper personal protective equipment, degowning and decontamination procedures, giene monitoring, medical surveillance and the istrative controls.
	itions for safe storage rials to avoid	Store in acco	erly labelled containers. ordance with the particular national regulations. with the following product types: ing agents
Packa	aging material	-	aterial: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Alendronate	121268-17-5	TWA	20 µg/m3 (OEB 3)	Internal



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			Wipe limit	200 µg/100 cm ²	Internal
Eng	ineering measures	technologie less quick of All enginee design and protect pro- Containme are require the composi- tainment de	es to control airbo connections). ring controls shou operated in acco ducts, workers, ar nt technologies su d to control at sou and to uncontrolle	controls and manufa rne concentrations (uld be implemented b rdance with GMP prind the environment. uitable for controlling urce and to prevent r d areas (e.g., open-f	e.g., drip- by facility inciples to compounds nigration of
Pers	sonal protective equip	nent			
F	piratory protection Tilter type d protection	 If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type 			
Ν	Naterial	: Chemical-r	esistant gloves		
	Remarks 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 aerosols. 			
Skin	and body protection	: Work unifor Additional t task being posable su Use approp	performed (e.g., s its) to avoid expos	oat. ould be used based sleevelets, apron, ga sed skin surfaces. techniques to remov	untlets, dis-

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state :	liquid
Colour :	clear
Odour :	No data available
Odour Threshold :	No data available
Melting point/freezing point :	No data available
Boiling point, initial boiling : point and boiling range	100 °C
Flammability (solid, gas) :	Not applicable
Flammability (liquids) :	No data available



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	Upper e	explosion limit and uppo explosion limit / Upper bility limit			
		explosion limit / Lower bility limit	:	No data available	
	Flash p	point	:	No data available)
	Decom	position temperature	:	No data available)
	рН		:	6.4 - 7.2	
	Evapor	ation rate	:	No data available)
	Auto-ig	nition temperature	:	No data available)
	Viscosi Visc	ty cosity, kinematic	:	No data available)
	Solubili Wat	ty(ies) er solubility	:	soluble	
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
	Vapour	pressure	:	No data available)
		v and / or relative densit e density	ty :	No data available)
	Density	,	:	No data available)
	Relative	e vapour density	:	No data available)
	Explosi	ve properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Particle Particle	e characteristics e size	:	Not applicable	

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.



rsion	Revision Date: 2020/10/16		OS Number: 209-00017	Date of last issue: 2020/03/23 Date of first issue: 2014/11/05
			N	
Inforn expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity assified based on availa	ble	information.	
<u>Com</u>	oonents:			
	dronate: • oral toxicity	:	LD50 (Rat): 55	2 - 626 ma/ka
				966 - 1,280 mg/kg
Acute	inhalation toxicity	:		
	e dermal toxicity	:	Remarks: No d	ata available
Not c	corrosion/irritation lassified based on availa	ble	information.	
	oonents:			
Alend Speci Rema		:	Rabbit Severe skin irri	tation
Serio	us eye damage/eye irri	tati	on	
Not c	assified based on availa	ble	information.	
<u>Com</u>	ponents:			
Aleno Speci Resu		:	Rabbit Severe irritation	1
Resp	iratory or skin sensitis	atio	'n	
_	sensitisation lassified based on availa	ble	information.	
-	iratory sensitisation assified based on availa	ble	information.	
	oonents:			
	dronate:			
D	arks	•	No data availal	



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	cell mutagenicity assified based on avai	lable	information.	
<u>Com</u>	oonents:			
	Ironate: toxicity in vitro	:	Test Type: Alka Test system: ra Result: negative	
			Test Type: Bac	terial reverse mutation assay (AMES) ation: with and without metabolic activation
			Test Type: In vi Result: negative	tro mammalian cell gene mutation test
				omosomal aberration ninese hamster ovary cells al
Geno	toxicity in vivo	:	Test Type: Chro Species: Mouse Result: negative	
	<u>oonents:</u> Ironate:			
	es cation Route sure time	:	Rat, male Oral 2 Years 1 mg/kg body w	
Targe Rema	et Organs Irks	:	3.75 mg/kg bod Thyroid The mechanism humans.	y weight n or mode of action may not be relevant in
-	oductive toxicity assified based on avai	lable	information.	
<u>Com</u>	oonents:			
Alend	Ironate:			
Effect	s on fertility	:		ale and female
Effect ment	s on foetal develop-	:	Test Type: Dev Species: Rat, fe Application Rou	emale
			7 / 14	



ersion 1	Revision Date: 2020/10/16	SDS Number: 28209-00017	Date of last issue: 2020/03/23 Date of first issue: 2014/11/05
		Symptoms: Re weight, Skelet	al Toxicity: LOAEL: 1 - 15 mg/kg body weight educed number of viable fetuses, Reduced bod al malformations rotoxic effects and adverse effects on the off- etected.
		Test Type: De Species: Rabb Application Ro Developmenta Result: No adv	bit, female bute: Oral al Toxicity: NOAEL: 40 mg/kg body weight
Repro sessn	oductive toxicity - As- nent	: Some evidence animal experir	e of adverse effects on development, based or ments.
	- single exposure		
	assified based on avai ponents:	liable information.	
Alenc	Ironate:		
Asses	ssment	: May cause res	spiratory irritation.
_			
Not cl	- repeated exposure assified based on avai		
Not cl <u>Comp</u>	assified based on avai		
Not cl <u>Comp</u> Alenc Targe	assified based on avail	ilable information. : Bone, Stomac	
Not cl <u>Comp</u> Alenc Targe Asses	assified based on avai ponents: Ironate: t Organs	ilable information. : Bone, Stomac : May cause da	
Not cl Comp Alenc Targe Asses Repe	assified based on avai <u>ponents:</u> dronate: at Organs ssment	ilable information. : Bone, Stomac : May cause da	
Not cl Comp Alenc Targe Asses Repea	assified based on avai <u>ponents:</u> dronate: at Organs ssment ated dose toxicity	ilable information. : Bone, Stomac : May cause da	h, Kidney mage to organs through prolonged or repeated
Not cl Comp Alence Targe Asses Repea Comp Alence Speci	assified based on avai <u>conents:</u> dronate: ated dose toxicity <u>conents:</u> dronate: es	ilable information. : Bone, Stomac : May cause da exposure. : Rat	
Not cl Comp Alence Targe Asses Repea Comp Alence	assified based on avai <u>conents:</u> dronate: ated dose toxicity <u>conents:</u> dronate: es EL	 ilable information. Bone, Stomac May cause da exposure. Rat 2.5 mg/kg > 2.5 mg/kg 	
Not cl Comp Alence Targe Asses Repea Comp Alence Specie NOAE LOAE Applic	assified based on avai <u>conents:</u> dronate: at Organs ssment ated dose toxicity <u>conents:</u> dronate: es EL EL cation Route	 ilable information. Bone, Stomac May cause da exposure. Rat 2.5 mg/kg > 2.5 mg/kg Intravenous 	
Not cl Comp Alenc Targe Asses Repea Comp Alenc Speci NOAE LOAE Applic Expos	assified based on avai <u>ponents:</u> dronate: ated dose toxicity <u>ponents:</u> dronate: es EL EL	 ilable information. Bone, Stomac May cause da exposure. Rat 2.5 mg/kg > 2.5 mg/kg 	
Not cl Comp Alence Targe Asses Repea Comp Alence Specia NOAE LOAE Applic Expos Targe	assified based on avai <u>ponents:</u> dronate: ated dose toxicity <u>ponents:</u> dronate: es EL EL cation Route sure time et Organs es	 ilable information. Bone, Stomac May cause da exposure. Rat 2.5 mg/kg > 2.5 mg/kg Intravenous 53 Weeks Stomach Dog 	
Not cl Comp Alence Asses Repea Comp Alence Specia NOAE LOAE Applice Specia Targe	assified based on avai <u>conents:</u> dronate: ated dose toxicity <u>conents:</u> dronate: es EL EL cation Route sure time et Organs es EL	 ilable information. Bone, Stomac May cause da exposure. Rat 2.5 mg/kg > 2.5 mg/kg Intravenous 53 Weeks Stomach Dog 0.01 mg/kg 	
Not cl Comp Alence Targe Asses Repea Comp Alence Specia NOAE LOAE Applice Expos Targe Specia LOAE Applice Expos	assified based on avai <u>conents:</u> dronate: ated dose toxicity <u>conents:</u> dronate: es EL cation Route sure time et Organs es EL cation Route sure time es EL cation Route sure time	 ilable information. Bone, Stomad May cause da exposure. Rat 2.5 mg/kg > 2.5 mg/kg Intravenous 53 Weeks Stomach Dog 0.01 mg/kg Intravenous 3 yr 	mage to organs through prolonged or repeated
Not cl Comp Alence Targe Asses Repea Comp Alence Specia NOAE LOAE Applice Expos Targe Specia LOAE Applice Expos	assified based on avai <u>conents:</u> dronate: ated dose toxicity <u>conents:</u> dronate: es EL cation Route sure time et Organs es EL cation Route	 ilable information. Bone, Stomad May cause da exposure. Rat 2.5 mg/kg > 2.5 mg/kg Intravenous 53 Weeks Stomach Dog 0.01 mg/kg Intravenous 	mage to organs through prolonged or repeated
Not cl Comp Alence Targe Asses Repea Comp Alence Specia NOAE LOAE Applice Expos Targe Specia LOAE Applice Expos	assified based on avai <u>ponents:</u> dronate: ated dose toxicity <u>ated dose toxicity</u> <u>ated dose toxicity</u>	 ilable information. Bone, Stomad May cause da exposure. Rat 2.5 mg/kg > 2.5 mg/kg Intravenous 53 Weeks Stomach Dog 0.01 mg/kg Intravenous 3 yr 	mage to organs through prolonged or repeated



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Expo	cation Route sure time et Organs	:	Oral 53 Weeks Kidney	
-	ration toxicity classified based on ava	ilahla	information	
	ponents:	nabie	information.	
	dronate: applicable			
Expe	erience with human ex	kposi	ıre	
<u>Prod</u> Inhal		:	Symptoms: respir	atory tract irritation
Skin	contact	:	Symptoms: May	ause, Skin irritation
Eye	contact	:	Symptoms: May	cause, Eye irritation
Inges	stion	:	Symptoms: Gastr	ointestinal disturbance, musculoskeletal pain
Com	ponents:			
Alen	dronate:			
Inhal	ation	:	Symptoms: respire	atory tract irritation
Skin	contact	:	Symptoms: Seve	e irritation, skin blistering
Eye	contact	:	Symptoms: Seve	e irritation
Inges	stion	:	Symptoms: Gastr	ointestinal disturbance, musculoskeletal pain

12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
Alendronate: Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 27 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
		LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l Exposure time: 96 h Method: FDA 4.11
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 170 mg/l Exposure time: 48 h Method: OECD Test Guideline 202



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Toxicit plants	ty to algae/aquatic	:	mg/l Exposure time: 7	rchneriella subcapitata (green algae)): > 10 2 h est Guideline 201
			Exposure time: 7	rchneriella subcapitata (green algae)): 4 mg 2 h 'est Guideline 201
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: 3	les promelas (fathead minnow)): 1.1 mg/l 2 d est Guideline 210
			Exposure time: 3	es promelas (fathead minnow)): 1.9 mg/l 2 d est Guideline 210
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2	magna (Water flea)): 4.7 mg/l 1 d ïest Guideline 211
Persis	stence and degradabili	ity		
<u>Comp</u>	oonents:			
	l ronate: gradability	:	Result: Readily b Biodegradation: Exposure time: 7	70.3 %
Stabili	ty in water	:		life (DT50): 375 d est Guideline 111
Bioac	cumulative potential			
<u>Comp</u>	onents:			
Partitio	l ronate: on coefficient: n- ol/water	:	log Pow: -1.73	
	ity in soil ta available			
	dous to the ozone laye	ər		
	adverse effects ta available			



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13. DISPC	SAL CONSIDERATIO	NS	
Dicn	asal mothods		
-	osal methods e from residues	· Dispose of in a	ccordance with local regulations.
	aminated packaging	: Empty contain dling site for re	ers should be taken to an approved waste han- cycling or disposal.
14. TRAN	SPORT INFORMATIO	N	
Interi	national Regulations		
UNR	TDG		
Not re	egulated as a dangerou	is good	
	-DGR egulated as a dangerou	is good	
-	-Code egulated as a dangerou	is good	
Trans	sport in bulk accordir	g to Annex II of MA	RPOL 73/78 and the IBC Code
Not a	pplicable for product as	s supplied.	
	onal Regulations		
Refer	to section 15 for speci	fic national regulation	l.
15. REGU	LATORY INFORMATI	ON	
Relat	ed Regulations		
Fire S	Service Law		
Not a	pplicable to dangerous	materials / designate	ed flammables.
	nical Substance Cont		
	pplicable for Specified ssment Chemical Subs		, Monitoring Chemical Substance and Priority
Indus	strial Safety and Healt	h Law	
Harm	nful Substances Prohi	bited from Manufac	ture
Not a	pplicable		
	n ful Substances Requ pplicable	ired Permission for	Manufacture
	tances Prevented Fro	m Impairment of He	ealth
Not a	pplicable	-	
on Ex	Ilar concerning Inforn xisting Chemicals hav pplicable		s having Mutagenicity - Annex 2: Information
on No	Ilar concerning Inforn otified Substances ha pplicable		s having Mutagenicity - Annex 1: Information



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	ances Subject to be	Notified Names	
	ances Subject to be	e Indicated Names	
	ance on Prevention	of Hazards Due to S	pecified Chemical Substances
	ance on Prevention	of Lead Poisoning	
	ance on Prevention	of Tetraalkyl Lead P	oisoning
	ance on Prevention	of Organic Solvent	Poisoning
Subst	cement Order of the ances) oplicable	e Industrial Safety an	d Health Law - Attached table 1 (Dangerou
	nous and Deleterion	us Substances Conti	ol Law
viron			of Specific Chemical Substances in the E the Management Thereof
-	Pressure Gas Safety	/ Act	
	sive Control Law		
	el Safety Law gulated as a dangero	ous good	
	on Law gulated as a dangero	ous good	
Marin	e Pollution and Sea	Disaster Prevention	etc Law
Bulk t	ransportation	: Not classified	as noxious liquid substance
Pack	transportation	: Not classified	as marine pollutant
Narco	otics and Psychotro	pics Control Act	
	tic or Psychotropic R oplicable	aw Material (Export / I	mport Permission)
	fic Narcotic or Psycho oplicable	otropic Raw Material (I	Export / Import permission)
Waste	e Disposal and Publ trial waste	ic Cleansing Law	
Indust			
	omponents of this p	product are reported	in the following inventories:



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DSL	2	: not determined : not determined	
iloso	,	. not determined	

16. OTHER INFORMATION

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

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



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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.

JP / EN