

Version 1.6	Revision Date: 28.09.2024	SDS Number: 6344692-00007	Date of last issue: 30.09.2023 Date of first issue: 16.09.2020				
SECTION	SECTION 1. IDENTIFICATION						
Prod	uct identifier	: Ovipast Plu	s Formulation				
Man	ufacturer or supplier's	s details					
Com	pany	: MSD					
Addr	ess		el Bento Soares, 530 ao Paulo - Brazil CEP 12730-340				
Tele	phone	: 908-740-40	00				
Eme	rgency telephone	: 1-908-423-6	6000				
E-ma	ail address	: EHSDATAS	TEWARD@msd.com				
Reco	ommended use of the	chemical and rest	rictions on use				
	ommended use rictions on use	: Veterinary r : Not applicat					
SECTION	I 2. HAZARDS IDENTI	FICATION					
Спе	Classification in acc	ordance with ARN	T NBR 14725 Standard				
	sensitization	: Category 1					

#### GHS label elements in accordance with ABNT NBR 14725 Standard

Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H317 May cause an allergic skin reaction.
Precautionary Statements	:	<b>Prevention:</b> P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves.
		Response: P302 + P352 IF ON SKIN: Wash with plenty of water. P333 + P313 If skin irritation or rash occurs: Get medical ad- vice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse.





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#### Other hazards which do not result in classification

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Aluminum hydroxide	21645-51-2		25
Antigen	Not Assigned		> 1,5 -< 2,5
Maleic acid	110-16-7	Acute Tox. (Oral), 4 Acute Tox. (Dermal), 4 Skin Corr., 1B Eye Dam., 1 Skin Sens., 1 STOT SE, 3 Aquatic Acute, 3	0,23
Thiomersal	54-64-8	Acute Tox. (Oral), 2 Acute Tox. (Inhala- tion), 2 Acute Tox. (Dermal), 1 Repr., 1B STOT RE, (Central nervous system, Car- dio-vascular system, Gastrointestinal tract, Kidney), 1 Aquatic Acute, 1 Aquatic Chronic, 1	0,013

#### **SECTION 4. FIRST AID MEASURES**

General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medical advice.</li> </ul>
If inhaled	: If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	<ul> <li>In case of contact, immediately flush skin with soap and plenty of water.</li> <li>Remove contaminated clothing and shoes.</li> <li>Get medical attention.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul>
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 if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and	: May cause an allergic skin reaction.



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delay Prote	ved ection of first-aiders		First Aid respond	ers should pay attention to self-protection,			
			and use the recommended personal protective equipment when the potential for exposure exists (see section 8).				
	s to physician	:	, ,	ically and supportively.			
		430	-				
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical				
Unsı medi	uitable extinguishing a	:	None known.				
	Specific hazards during fire fighting Hazardous combustion prod- ucts		Exposure to com	bustion products may be a hazard to health.			
			Carbon oxides Metal oxides				
Spec ods	cific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to o			
	cial protective equipment re-fighters	:		e, wear self-contained breathing apparatus. tective equipment.			

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. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for : containment and cleaning up	Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.



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		disposal of this employed in th determine whic Sections 13 an	al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to ch regulations are applicable. d 15 of this SDS provide information regarding national requirements.		
SECTION	7. HANDLING AND ST	ORAGE			
Techr	nical measures	: See Engineerir	ng measures under EXPOSURE ERSONAL PROTECTION section.		
Local	/Total ventilation		adequate ventilation.		
Advic	e on safe handling	: Do not get on s			
	-		g mist or vapors.		
		Do not swallow			
		practice, based	with eyes. Irdance with good industrial hygiene and safety I on the results of the workplace exposure		
		assessment Take care to pr environment.	revent spills, waste and minimize release to the		
Hygie	ne measures	: If exposure to of flushing system	chemical is likely during typical use, provide eye ns and safety showers close to the working		
		place.	not oot drink or omoko		
			o not eat, drink or smoke. work clothing should not be allowed out of the		
			nated clothing before re-use.		
		The effective o engineering co	peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures,		
			ne monitoring, medical surveillance and the		
<b>.</b> .		use of administ			
Cond	itions for safe storage		ly labeled containers.		
Mater	ials to avoid	<ul> <li>Store in accordance with the particular national regulation</li> <li>Do not store with the following product types:</li> <li>Strong oxidizing agents</li> <li>Gases</li> </ul>			

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Aluminum hydroxide	21645-51-2	TWA (Respirable particulate matter)	1 mg/m³ (Aluminum)	ACGIH
Thiomersal	54-64-8	TWA	0,01 mg/m <sup>3</sup> (Mercury)	ACGIH
		STEL	0,03 mg/m³	ACGIH



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				(Mercury)		
E	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. Laboratory operations do not require special containment.			
	ersonal protective equipme	ent				
R	espiratory protection Filter type	:	exposure assessr	exhaust ventilation is not availal nent demonstrates exposures o delines, use respiratory protect	outside the	
H	and protection Material			t alouaa		
	Material	•	Chemical-resistar	it gloves		
Eye protection : Wear safety glasses with side shield If the work environment or activity in mists or aerosols, wear the appropria Wear a faceshield or other full face p potential for direct contact to the face aerosols.			ment or activity involves dusty wear the appropriate goggles. or other full face protection if the	conditions, here is a		
S	kin and body protection	:	Work uniform or la	aboratory coat.		
ECTI	ON 9. PHYSICAL AND CHE	EMI		6		
PI	hysical state	:	suspension			
C	olor	:	off-white to beige	, opaque		
0	dor	:	No data available	9		
0	dor Threshold	:	No data available	9		
pł	Н	:	6,1 - 6,9			
Μ	lelting point/freezing point	:	No data available	)		
	itial boiling point and boiling inge	:	No data available			
FI	lash point	:	Not applicable			
E	vaporation rate	:	No data available	)		
FI	lammability (solid, gas)	:	Not applicable			
FI	lammability (liquids)	:	No data available	)		
	pper explosion limit / Upper ammability limit	:	No data available	2		
Lo	ower explosion limit / Lower	:	No data available	9		

### SAFETY DATA SHEET



## **Ovipast Plus Formulation**

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	flammability limit				
	Vapor p	pressure	:	similar to water	
	Relative	e vapor density	:	No data available	9
	Relative	e density	:	1	
	Density	,	:	1 g/cm³ similar to water	
	Solubili Wat	ty(ies) er solubility	:	soluble	
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty :osity, dynamic	:	No data available	
	Visc	osity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	Not applicable	
	Particle Particle	e characteristics e size	:	Not applicable	

#### SECTION 10. STABILITY AND REACTIVITY

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

#### SECTION 11. TOXICOLOGICAL INFORMATION

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

#### Acute toxicity

Not classified based on available information.



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<u>Compo</u>	nents:		
	um hydroxide: ral toxicity	: LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 423 Assessment: The substance or mixture ha icity	s no acute oral tox
Acute in	halation toxicity	<ul> <li>LC50 (Rat): &gt; 5,09 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture ha tion toxicity Remarks: Based on data from similar mate</li> </ul>	
Maleic a	acid:		
Acute of	al toxicity	: LD50 (Rat): > 300 - 2.000 mg/kg Method: OECD Test Guideline 401 Remarks: Based on data from similar mate	erials
Acute de	ermal toxicity	: LD50 (Rabbit): 1.560 mg/kg	
Thiome	rsal:		
Acute of	al toxicity	: LD50 (Rat): 75 mg/kg	
		Acute toxicity estimate: 10 mg/kg Method: Expert judgment Remarks: Based on national or regional re	gulation.
Acute in	halation toxicity	<ul> <li>Acute toxicity estimate: 0,1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgment Remarks: Based on national or regional re</li> </ul>	gulation.
Acute de	ermal toxicity	: Acute toxicity estimate: 10 mg/kg Method: Expert judgment Remarks: Based on national or regional re	gulation.
	rrosion/irritation sified based on ava	lable information.	
<u>Compo</u>	nents:		
	um hydroxide:		
Species Method		: Rabbit : OECD Test Guideline 404	
Result		: No skin irritation	
Maleic a	acid:		
Species		: in vitro membrane barrier	
Method		: OECD Test Guideline 435	



rsion S	Revision Date: 28.09.2024	SDS Number: 6344692-00007	Date of last issue: 30.09.2023 Date of first issue: 16.09.2020
Resul	lt	: Corrosive after 3	minutes to 1 hour of exposure
	us eye damage/eye lassified based on ava		
<u>Com</u> r	oonents:		
Alum	inum hydroxide:		
Speci		: Rabbit	
Resul <sup>:</sup> Metho		: No eye irritation : OECD Test Guid	leline 405
	c acid:		
Resul <sup>:</sup> Rema	-	: Irreversible effect : Based on skin co	•
Respi	iratory or skin sensi	tization	
Skin s	sensitization		
May c	ause an allergic skin	reaction.	
•	iratory sensitization lassified based on ava	ilable information.	
<u>Com</u> r	oonents:		
Alum	inum hydroxide:		
Test T		: Maximization Te	st
	es of exposure	: Skin contact	
Specie Metho		: Guinea pig : OECD Test Guic	leline 406
Resul		: negative	
	c acid:		
Test T	Гуре es of exposure	: Maximization Te : Skin contact	st
Specie		: Guinea pig	
Metho	bd	: OECD Test Guid	leline 406
Resul	lt	: positive	
Asses	ssment	: Probability or evi	dence of skin sensitization in humans
	a <b>cell mutagenicity</b> lassified based on ava	ilable information.	
<u>Comr</u>	oonents:		
Alum	inum hydroxide:		
Genot		· Test Type: In vitu	o mammalian cell gene mutation test



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		Test Type: Chromosome aberration test in vitro Result: positive Remarks: Based on data from similar materials
		Test Type: DNA damage and repair, unscheduled DNA syn thesis in mammalian cells (in vitro)
		Result: equivocal Remarks: Based on data from similar materials
		Test Type: in vitro micronucleus test Result: positive Remarks: Based on data from similar materials
Genot	oxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in viv cytogenetic assay) Species: Rat Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative
Maleio	c acid:	
Genot	oxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
Thiom	nersal:	
Genot	oxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genot	oxicity in vivo	<ul> <li>Test Type: Mammalian spermatogonial chromosome aberration test (in vivo)</li> <li>Species: Mouse</li> <li>Application Route: Ingestion</li> </ul>
		Result: negative
	n <b>ogenicity</b> assified based on av	vailable information.
<u>Comp</u>	onents:	
Alumi	num hydroxide:	
Specie		: Rat
	ation Route sure time	: inhalation (dust/mist/fume) : 86 weeks
Result		: negative
Rema		: Based on data from similar materials
	c acid:	
Maleid		



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		ition Route ire time ks	:	Ingestion 2 Years negative Based on data fro	m similar materials
	Thiom Species Exposu Result		:	Rat 1 Years negative	
	Not cla	ductive toxicity ssified based on availa	ble	information.	
		onents:			
		num hydroxide: on fertility	:	reproduction/deve Species: Rat Application Route Method: OECD To Result: negative	
	Effects	on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	o-fetal development : Ingestion
	Maleic	acid:			
		on fertility	:	Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion on data from similar materials
	Effects	on fetal development	:	Species: Rat Application Route Result: negative	o-fetal development : Ingestion on data from similar materials
	Thiom	ersal:			
	-	on fetal development	:	Species: Rat Application Route Result: positive Remarks: Based of	: Ingestion on data from similar materials
	Reprod sessme	luctive toxicity - As- ent	:		adverse effects on sexual function and development, based on animal experiments



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	-single exposure		
Not cl	assified based on av	ailable information.	
<u>Comp</u>	oonents:		
Malei	c acid:		
	sment	: May cause resp	
Rema	rks	: Based on nation	nal or regional regulation.
STOT	-repeated exposure		
Not cl	assified based on av	ailable information.	
Comp	oonents:		
Thion	nersal:		
Targe	t Organs	: Central nervous tinal tract, Kidne	system, Cardio-vascular system, Gastroin
Asses	sment		to organs through prolonged or repeated
Repea	ated dose toxicity		
<u>Comp</u>	oonents:		
Alumi	inum hydroxide:		
Speci		: Rat	
NOAE		: > 100 mg/kg : Ingestion	
	ation Route	: 364 Days	
Metho		: OECD Test Gui	deline 426
Rema	rks	: Based on data f	rom similar materials
Speci		: Rat	
NOAE		: > 0,2 mg/kg	
	ation Route	: inhalation (dust : 12 Months	mist/iume)
Rema			rom similar materials
Thion	nersal:		
Specie	es	: Rat	
	L	: >= 0,5 mg/kg	
LOAE	- C	: Ingestion	
	ation Route		rom similar materials

Not classified based on available information.



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ECTION	CTION 12. ECOLOGICAL INFORMATION							
Ecoto	oxicity							
<u>Com</u>	oonents:							
Alum	inum hydroxide:							
	ity to fish	:	LL50 (Salmo trutt Exposure time: 90	a (brown trout)): > 100 mg/l 5 h				
	ity to daphnia and other ic invertebrates	:	EL50 (Daphnia m Exposure time: 44	agna (Water flea)): > 100 mg/l 3 h				
Toxic plants	ity to algae/aquatic	:	EL50 (Selenastru Exposure time: 90	m capricornutum (green algae)): > 100 mg/ 5 h				
Malei	c acid:							
Toxic	ity to fish	:	mg/l Exposure time: 90	acrochirus (Bluegill sunfish)): > 10 - 100 S h on data from similar materials				
	ity to daphnia and other ic invertebrates	:	Exposure time: 48	leutralized product				
Toxic plants	ity to algae/aquatic	:	mg/l Exposure time: 72	leutralized product				
			mg/l Exposure time: 72	leutralized product				
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time: 2	nagna (Water flea)): > 1 mg/l l d on data from similar materials				
Toxic	ity to microorganisms	:	Exposure time: 18	leutralized product				
Thior	nersal:							
	ity to fish	:	Exposure time: 9	ticulata (guppy)): > 0,01 - 0,1 mg/l 5 h on data from similar materials				



ersion 6	Revision Date: 28.09.2024		9S Number: 44692-00007	Date of last issue: 30.09.2023 Date of first issue: 16.09.2020
	ity to daphnia and other ic invertebrates	:	Exposure time: 4	nagna (Water flea)): > 0,01 - 0,1 mg/l 8 h on data from similar materials
	Toxicity to algae/aquatic plants		- 0,1 mg/l Exposure time: 9	rchneriella subcapitata (green algae)): > 0,0 6 h on data from similar materials
	ctor (Acute aquatic tox-	:	10	
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time: 2	sp. (Water flea)): > 0,001 - 0,01 mg/l 1 d on data from similar materials
M-Factoricit	ctor (Chronic aquatic	:	10	
Persi	stence and degradabili	ity		
Com	oonents:			
Malei	c acid:			
Biode	gradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD 1	97 %
Bioad	cumulative potential			
<u>Com</u>	oonents:			
Partiti	<b>c acid:</b> ion coefficient: n- ol/water	:	log Pow: -1,3	
Mobi	l <b>ity in soil</b> ata available			
	r <b>adverse effects</b> ata available			

Disposal methods		
Waste from residues	:	
		Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste
		handling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations



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	<b>UNRTDG</b> Not regulated as a dangerous good									
	IATA-I Not reg	<b>DGR</b> gulated as a dangerous	s go	od						
	IMDG- Not reg	<b>Code</b> gulated as a dangerous	s go	od						
	-	oort in bulk according	-		OL 73/78 and the IBC Code					
I	Domes	stic regulation								
-	ANTT Not reg	gulated as a dangerous	s go	od						
	-	Il precautions for use plicable	er							
SEC	TION 1	5. REGULATORY INF	OR	MATION						
	Safety mixtur		nent	tal regulations/leg	islation specific for the substance or					
I	National List of Carcinogenic Agents for Humans - : Not applicable (LINACH)									
	Brazil. Police	List of chemicals contr	olle	d by the Federal	: Not applicable					
-	The in	gredients of this proc	duct	are reported in th	ne following inventories:					
,	AICS		:	not determined	-					
I	DSL		:	not determined						
I	IECSC		:	not determined						
SEC	TION 1	6. OTHER INFORMA	ΓΙΟΙ	N						
	Revisio Date fo	on Date ormat	:	28.09.2024 dd.mm.yyyy						
;	Source	<b>r information</b> as of key data used to e the Material Safety heet	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/					
	<b>Full te</b> ACGIH	xt of other abbreviati	ons :	USA. ACGIH Thr	eshold Limit Values (TLV)					

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV
ACGIH / TWA ACGIH / STEL		8-hour, time-weighted average Short-term exposure limit



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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; 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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