

Vers 2.0	ion	Revision Date: 28.09.2024		S Number: 357725-00004	Date of last issue: 23.07.2024 Date of first issue: 28.02.2024	
SEC	TION 1	. IDENTIFICATION				
	Product identifier		:	Fluralaner (with	<pre>/itamin E) Formulation (AU/NZ)</pre>	
	Other means of identification		:	FLEXOLT ORAL LICE TREATMENT FOR SHEEP WITH ANY LENGTH OF WOOL (91565) FLEXOLT (A011971)		
	Manufacturer or supplier's		deta	ils		
	Company Address		:	MSD		
			:	Rua Coronel Ber Cruzeiro - Sao P	nto Soares, 530 aulo - Brazil CEP 12730-340	
	Telephone		:	908-740-4000		
	Emerge	ency telephone	:	1-908-423-6000		
	E-mail	address	:	EHSDATASTEW	/ARD@msd.com	
	Recom	mended use of the c mended use tions on use	-	Veterinary produ		

### **SECTION 2. HAZARDS IDENTIFICATION**

#### GHS Classification in accordance with ABNT NBR 14725 Standard

Long-term (chronic) aquatic : Category 1 hazard

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

Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H410 Very toxic to aquatic life with long lasting effects.
Precautionary Statements	:	Prevention: P273 Avoid release to the environment. Response:
		P391 Collect spillage.



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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)
Fluralaner	864731-61-3	Repr., 2 Aquatic Chronic, 1	>= 1 -< 2,5

#### **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	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	
Most important symptoms and effects, both acute and delayed	:	None known.
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.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.



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	Hazardous combustion prod- ucts	:	Carbon oxides Chlorine compour Fluorine compour	
	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
	Special protective equipment for fire-fighters	:		e, wear self-contained breathing apparatus. rective 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. 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. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### SECTION 7. HANDLING AND STORAGE

See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Use only with adequate ventilation.
Avoid inhalation of vapor or mist.
Do not swallow.
Avoid contact with eyes.
Avoid prolonged or repeated contact with skin.



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Hyg	ene measures	practice, based assessment Take care to pre environment. If exposure to cl flushing system place. When using do	dance with good industrial hygiene and safety on the results of the workplace exposure event spills, waste and minimize release to the nemical is likely during typical use, provide eye s and safety showers close to the working not eat, drink or smoke. ated clothing before re-use.			
Con	ditions for safe storage		/ labeled containers. ance with the particular national regulations.			
Materials to avoid		<ul> <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

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis		
Fluralaner	864731-61-3	TWA	100 µg/m3 (OEB 2)	Internal		
	Further information	ation: Skin				
		Wipe limit	1000 µg/100 cm <sup>2</sup>	Internal		
Engineering measures		Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.				
Personal protective equipmer	nt					
Respiratory protection :	exposure ass	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.				
Filter type : Hand protection	Combined particulates and organic vapor type					
Material :	Chemical-resistant gloves					
Remarks :	on the concer time is not det For special ap resistance to gloves with th	Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.				
Eye protection :	Wear the follo Safety glasse	Wear the following personal protective equipment:				
Skin and body protection :	Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.					

### Ingredients with workplace control parameters



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					t be avoided by using impervious protective aprons, boots, etc).	
SEC	SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES					
	Physic	al state	:	liquid		
	Color		:	yellow		
	Odor		:	No data available	9	
	Odor T	hreshold	:	No data available	9	
	рН		:	No data available	9	
	Melting	point/freezing point	:	No data available	9	
	Initial b range	oiling point and boiling	:	No data available	9	
	Flash p	point	:	103 °C		
	Evapor	ration rate	:	No data available	9	
	Flamm	ability (solid, gas)	:	Not applicable		
	Flamm	ability (liquids)	:	No data available	9	
		explosion limit / Upper ability limit	:	No data available	9	
		explosion limit / Lower ability limit	:	No data available	9	
	Vapor	pressure	:	No data available	9	
	Relativ	e vapor density	:	No data available	9	
	Relativ	e density	:	No data available	9	
	Density	/	:	1.045 kg/m³ (25 °	°C)	
	Solubil Wat	ity(ies) ter solubility	:	soluble		
		n coefficient: n-	:	Not applicable		
	octano Autoigr	nition temperature	:	No data available	9	
	Decom	position temperature	:	No data available	9	
	Viscosi Visc	ity cosity, dynamic	:	0,145 Pas ( 25 °0	C)	



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	scosity, kinematic sive properties	: 139 mm²/s () : Not explosive	,
	zing properties	: The substand	ce or mixture is not classified as oxidizing.
	cular weight	: Not applicabl	le
	le characteristics le size	: Not applicabl	le

#### 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 exposure	:	Inhalation Skin contact
exposure		Ingestion
		Eye contact

#### Acute toxicity

Not classified based on available information.

### Components:

Fluralaner:	
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Acute oral toxicity	:	LD50 (Rat): > 2.000 mg/kg Remarks: No mortality observed at this dose. No significant adverse effects were reported
Acute dermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Remarks: No significant adverse effects were reported

#### Skin corrosion/irritation

Not classified based on available information.

#### Components:

Fluralaner:	

Species	:	Rabbit
Result	:	No skin irritation



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#### Serious eye damage/eye irritation

Not classified based on available information.

#### **Components:**

#### Fluralaner:

Species	:	Rabbit
Result	:	Mild eye irritation

#### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

#### Components:

#### Fluralaner:

Test Type	:	Maximization Test
Routes of exposure	:	Dermal
Species Result	:	Guinea pig
Result	:	Not a skin sensitizer.

#### Germ cell mutagenicity

Not classified based on available information.

### Components:

## Fluralaner:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: Mouse Lymphoma Result: negative
		Test Type: Chromosomal aberration Result: negative
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Oral Result: negative

#### Carcinogenicity

Not classified based on available information.

#### Components:

#### Fluralaner:



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Carcir ment	nogenicity - Assess-	:	No data available	
-	oductive toxicity assified based on availa	able	information.	
Comp	oonents:			
Flura	laner:			
Effect	s on fertility	:	General Toxicity I	
			Species: Dog Application Route Fertility: NOAEL: Result: No effects ment were detect	75 mg/kg body weight son fertility and early embryonic develop-
Effects on fetal development		:	Result: Embryoto	e: Oral oxicity: NOAEL: 100 mg/kg body weight xic effects and adverse effects on the off- cted only at high maternally toxic doses, No
			Result: Skeletal n	
			Test Type: Develor Species: Rabbit Application Route Developmental To Result: Skeletal n	: Dermal oxicity: NOAEL: 100 mg/kg body weight
Repro sessn	oductive toxicity - As- nent	:	Suspected of dan	naging the unborn child.

Not classified based on available information.

### STOT-repeated exposure

Not classified based on available information.



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Repe	ated dose toxicity		
Com	ponents:		
Flura	llaner:		
Expo	EL cation Route sure time et Organs	: Dog : 1 mg/kg : Oral : 52 Weeks : Liver : No significant ad	lverse effects were reported
Expo		: Juvenile dog : 56 - 280 mg/kg : Oral : 24 Weeks : Diarrhea	
Expo		: Rat : 400 mg/kg : Oral : 90 Days : Liver, thymus gla	and
Expo	EL cation Route sure time et Organs	: Rat : 500 mg/kg : Dermal : 90 Days : Liver : No significant ac	dverse effects were reported
-	ration toxicity lassified based on ava	ailable information.	
Com	ponents:		
	<b>llaner:</b> Ipplicable		
Expe	rience with human e	exposure	
Com	nonents:		

## Components:

### Fluralaner:

Skin contact	:	Remarks: May irritate skin.
Eye contact	:	Remarks: May cause eye irritation.



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## SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

### Components:

I	Flu	ra	lane	er:	

	Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,0488 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility.
	Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 0,015 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: No toxicity at the limit of solubility.
	Toxicity to algae/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (green algae)): >= 0,08 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility.
	Toxicity to fish (Chronic tox- icity)	:	NOEC (Zebrafish): >= 0,049 mg/l Exposure time: 21 d Method: OECD Test Guideline 204 Remarks: No toxicity at the limit of solubility.
	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0,0736 µg/l Exposure time: 21 d Method: OECD Test Guideline 211
	M-Factor (Chronic aquatic toxicity)	:	1.000
	Persistence and degradability No data available	ty	
	Bioaccumulative potential		
	Components:		
_	Fluralaner:		
	Bioaccumulation	:	Species: Zebrafish Bioconcentration factor (BCF): 79,4 Method: OECD Test Guideline 305
ĺ	Partition coefficient: n- octanol/water	:	log Pow: 4,5
	Mobility in soil		
	Components:		
	Fluralaner:		



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Distrik menta	oution among environ- al compartments	:	log Koc: 4,1				
Other	adverse effects						
Comp	oonents:						
Flura	aner:						
	ts of PBT and vPvB sment	:	Substance is no	t persistent, bioaccumulative, and toxic (PBT)			
ECTION	13. DISPOSAL CONSI	DER	ATIONS				
Dieno	osal methods						
-	e from residues		Do not dispose o	of waste into sewer.			
	minated packaging	:	<ul> <li>Do not dispose of waste into sewer. Dispose of in accordance with local regulations.</li> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> </ul>				
				specified: Dispose of as unused product.			
ECTION	14. TRANSPORT INFO	RM	ATION				
Interr	national Regulations						
UNRT	DG						
UN nu Prope	umber er shipping name	:	UN 3082 ENVIRONMENT	ALLY HAZARDOUS SUBSTANCE, LIQUID,			
Поре		•	N.O.S.				
·			N.O.S. (Fluralaner)	,,			
Class		:	N.O.S.				
Class Packi Label	ng group s	:	N.O.S. (Fluralaner) 9				
Class Packi Label	ng group	:	N.O.S. (Fluralaner) 9 III				
Class Packin Labels Enviro IATA-	ng group s onmentally hazardous <b>DGR</b>	:	N.O.S. (Fluralaner) 9 III 9 yes				
Class Packii Label Enviro <b>IATA</b> - UN/ID	ng group s onmentally hazardous <b>DGR</b>	· · ·	N.O.S. (Fluralaner) 9 III 9 yes UN 3082 Environmentally	hazardous substance, liquid, n.o.s.			
Class Packii Label Enviro <b>IATA</b> - UN/ID	ng group s onmentally hazardous <b>DGR</b> 0 No. er shipping name		N.O.S. (Fluralaner) 9 III 9 yes UN 3082 Environmentally (Fluralaner)				
Class Packii Label Enviro <b>IATA-</b> UN/ID Prope Class Packii	ng group s onmentally hazardous <b>DGR</b> 9 No. er shipping name		N.O.S. (Fluralaner) 9 III 9 yes UN 3082 Environmentally (Fluralaner) 9 III				
Class Packii Label: Enviro <b>IATA-</b> UN/ID Prope Class Packii Label:	ng group s onmentally hazardous <b>DGR</b> 0 No. or shipping name ng group s		N.O.S. (Fluralaner) 9 III 9 yes UN 3082 Environmentally (Fluralaner) 9 III Miscellaneous				
Class Packii Labels Enviro <b>IATA</b> - UN/ID Prope Class Packii Labels Packii	ng group s onmentally hazardous <b>DGR</b> No. or shipping name ng group s ng instruction (cargo		N.O.S. (Fluralaner) 9 III 9 yes UN 3082 Environmentally (Fluralaner) 9 III				
Class Packii Labels Enviro <b>IATA</b> - UN/ID Prope Class Packii Labels Packii aircra	ng group s onmentally hazardous <b>DGR</b> 0 No. or shipping name ng group s ng instruction (cargo ft) ng instruction (passen-		N.O.S. (Fluralaner) 9 III 9 yes UN 3082 Environmentally (Fluralaner) 9 III Miscellaneous				
Class Packii Label: Enviro <b>IATA</b> - UN/ID Prope Class Packii Label: Packii aircra Packii ger ai	ng group s onmentally hazardous <b>DGR</b> 0 No. or shipping name ng group s ng instruction (cargo ft) ng instruction (passen-		N.O.S. (Fluralaner) 9 III 9 yes UN 3082 Environmentally (Fluralaner) 9 III Miscellaneous 964				
Class Packin Label Enviro <b>IATA-</b> UN/ID Prope Class Packin Label Packin aircra Packin ger ai Enviro	ng group s onmentally hazardous <b>DGR</b> 0 No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft)		N.O.S. (Fluralaner) 9 III 9 yes UN 3082 Environmentally (Fluralaner) 9 III Miscellaneous 964 964				
Class Packii Label: Enviro IATA- UN/ID Prope Class Packii Label: Packii aircra Packii ger ai Enviro IMDG UN nu	ng group sonmentally hazardous <b>DGR</b> 0 No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) onmentally hazardous <b>-Code</b> umber		N.O.S. (Fluralaner) 9 III 9 yes UN 3082 Environmentally (Fluralaner) 9 III Miscellaneous 964 964 yes UN 3082	hazardous substance, liquid, n.o.s.			
Class Packii Label: Enviro IATA- UN/ID Prope Class Packii Label: Packii aircra Packii ger ai Enviro IMDG UN nu	ng group sonmentally hazardous <b>DGR</b> 0 No. or shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) onmentally hazardous - <b>Code</b>		N.O.S. (Fluralaner) 9 III 9 yes UN 3082 Environmentally (Fluralaner) 9 III Miscellaneous 964 964 964 yes UN 3082 ENVIRONMENT N.O.S.				
Class Packii Label: Enviro IATA- UN/ID Prope Class Packii Label: Packii aircra Packii ger ai Enviro IMDG UN nu	ng group s onmentally hazardous <b>DGR</b> 0 No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) onmentally hazardous <b>-Code</b> umber er shipping name		N.O.S. (Fluralaner) 9 III 9 yes UN 3082 Environmentally (Fluralaner) 9 III Miscellaneous 964 964 yes UN 3082 ENVIRONMENT	hazardous substance, liquid, n.o.s.			
Class Packin Label: Enviro <b>IATA-</b> UN/ID Prope Class Packin aircra Packin ger ai Enviro <b>IMDG</b> UN nu Prope	ng group sonmentally hazardous <b>DGR</b> No. Tr shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) onmentally hazardous <b>-Code</b> umber rr shipping name		N.O.S. (Fluralaner) 9 III 9 yes UN 3082 Environmentally (Fluralaner) 9 III Miscellaneous 964 964 yes UN 3082 ENVIRONMENT N.O.S. (Fluralaner)	hazardous substance, liquid, n.o.s.			



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	EmS C Marine	ode pollutant	:	F-A, S-F yes	
	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.				
	Domes	stic regulation			
	Class Packin Labels	shipping name g group	:		LLY HAZARDOUS SUBSTANCE, LIQUID,
		I precautions for use	-	30	
	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.				

#### **SECTION 15. REGULATORY INFORMATION**

Safety, health and environ mixture	mental regulations/legis	tion specific for the s	substance or	
National List of Carcinogenic (LINACH)	Agents for Humans -	: Not applicable		
Brazil. List of chemicals controlled by the Federal : Not applicable Police				
The ingredients of this pro AICS	duct are reported in the : not determined	llowing inventories:		
DSL	: not determined			

: not determined

## SECTION 16. OTHER INFORMATION

Revision Date	:	28.09.2024
Date format	:	dd.mm.yyyy

#### **Further information**

IECSC

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



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

#### 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; 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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