

ersion 0	Revision Date: 06/08/2022	SDS Number: This version replaces all previous v S00059662905	ersions
ECTION	1. IDENTIFICATION		
Produ	ict name	: INSTRATA II A	
Desig	n code	: A17856B	
Produ	ct Registration number	: 32712	
Other	means of identification	: No data available	
Manu	facturer or supplier's o	etails	
Comp Addre	oany name of supplier ess	<ul> <li>Syngenta Canada Inc.</li> <li>140 Research Lane, Research Park Guelph ON N1G 4Z3 Canada</li> </ul>	
Telep Telefa		<ul> <li>1-87-SYNGENTA (1-877-964-3682)</li> <li>1-519-823-0504</li> </ul>	
	il address gency telephone num-	: : 1-800-327-8633 (FAST MED)	
Reco	mmended use of the c	emical and restrictions on use	
Reco	mmended use	: Fungicide	

# SECTION 2. HAZARDS IDENTIFICATION

# GHS classification in accordance with the Hazardous Products Regulations

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

#### Other hazards

None known.

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

Substance / Mixture : Mixture

#### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
fludioxonil (ISO)	fludioxonil (ISO)	131341-86-1	11.7925
propane-1,2-diol	propane-1,2-diol	57-55-6	>= 5 - < 10 *
triethylamine	triethylamine	121-44-8	>= 0 - < 0.1 *

\* Actual concentration or concentration range is withheld as a trade secret

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

General advice

Have the product container, label or Safety Data Sheet with : you when calling the emergency number, a poison control center or physician, or going for treatment.



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lf inha	aled		ctim to fresh air. is irregular or stopped, administer artificial respira-		
In cas	se of skin contact	Call a phys : Take off all	nt warm and at rest. Ician or poison control centre immediately. contaminated clothing immediately.		
In case of eye contact		If skin irritat Wash conta : Rinse imme	Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use. Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes.		
If swallowed		Immediate : If swallowed container o	ntact lenses. medical attention is required. d, seek medical advice immediately and show this r label. Juce vomiting.		
	important symptoms ffects, both acute and ed	: Nonspecific			
Notes to physician		: There is no Treat symp	specific antidote available. tomatically.		

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	:	Extinguishing media - small fires Use water spray, alcohol-resistant foam, dry chemical or car- bon dioxide. Extinguishing media - large fires Alcohol-resistant foam or Water spray
Unsuitable extinguishing media	:	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during fire- fighting	:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous prod- ucts of combustion (see section 10). Exposure to decomposition products may be a hazard to health.
Further information	:	Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for firefighters	:	Cool closed containers exposed to fire with water spray. Wear full protective clothing and self-contained breathing ap- paratus.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.



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	ods and materials for inment and cleaning up	sorbent mate miculite) and / national reg Clean contar Clean with d	age, and then collect with non-combustible ab- erial, (e.g. sand, earth, diatomaceous earth, ver- l place in container for disposal according to local gulations (see section 13). minated surface thoroughly. etergents. Avoid solvents. lispose of contaminated wash water.
SECTION	7. HANDLING AND ST	ORAGE	
Advic	e on safe handling	Avoid contac When using	rotective measures against fire required. It with skin and eyes. do not eat, drink or smoke. protection see section 8.
Cond	itions for safe storage	: No special st	torage conditions required. hers tightly closed in a dry, cool and well-

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with work	• •			
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
fludioxonil (ISO)	131341-86-1	TWA	5 mg/m3	Syngenta
		TWA (Inhal- able particu- late matter)	1 mg/m3	ACGIH
propane-1,2-diol	57-55-6	TWA (Va- pour and aerosols)	50 ppm 155 mg/m3	CA ON OEL
		TWA (aero- sol)	10 mg/m3	CA ON OEL
triethylamine	121-44-8	TWA	1 ppm 4.1 mg/m3	CA AB OEL
		STEL	3 ppm 12 mg/m3	CA AB OEL
		TWA	0.5 ppm	CA BC OEL
		STEL	1 ppm	CA BC OEL
		TWAEV	0.5 ppm	CA QC OEL
		STEV	1 ppm	CA QC OEL
		TWA	0.5 ppm	ACGIH
		STEL	1 ppm	ACGIH

Keep out of the reach of children.

Keep away from food, drink and animal feedingstuffs.

#### Components with workplace control parameters

Engineering measures : THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.



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			Containment of	ad/or approaction is the most reliable technica
				nd/or segregation is the most reliable technica sure if exposure cannot be eliminated.
			The extent of the actual risks in the actual r	nese protection measures depends on the use.
			Maintain air coi standards.	ncentrations below occupational exposure
				ary, seek additional occupational hygiene ad-
Perso	nal protective equipn	nent		
Respi	ratory protection	:	quired. When workers	spiratory protective equipment normally re- are facing concentrations above the exposure
Hand	protection		limit they must	use appropriate certified respirators.
-	marks	:		ective equipment required.
	rotection Ind body protection	:	No special prot Select skin and	ective equipment required. ective equipment required. I body protection based on the physical job
			requirements.	
Protec	ctive measures	:	over the use of	nnical measures should always have priority personal protective equipment. personal protective equipment, seek appro- onal advice.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Colour	:	beige grey to grey green
Odour	:	sweetish
Odour Threshold	:	No data available
рН	:	5 - 9 Concentration: 1 % w/v
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	Method: Pensky-Martens closed cup does not flash
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available



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	:	No data available	
	:	No data available	
oour pressure	:	No data available	
ative vapour density	:	No data available	
nsity	:	1.06 g/cm3 (20 °0	C)
	:	No data available	
Solubility in other solvents	:	No data available	
	:	No data available	
	:	610 °C	
composition temperature	:	No data available	
	:	77 - 233 mPa.s (	20 °C)
		64 - 196 mPa.s (	40 °C)
Viscosity, kinematic	:	No data available	
plosive properties	:	Not explosive	
dizing properties	:	The substance or	mixture is not classified as oxidizing.
face tension	:	39.4 mN/m, 0.1 %	% w/v, 20 °C
ticle size	:	No data available	
	06/08/2022 per explosion limit / Upper nmability limit wer explosion limit / Lower nmability limit pour pressure lative vapour density nsity ubility(ies) Water solubility Solubility in other solvents rtition coefficient: n- anol/water to-ignition temperature composition temperature cosity Viscosity, dynamic Viscosity, kinematic plosive properties idizing properties	06/08/2022SOper explosion limit / Upper nmability limit:wer explosion limit / Lower nmability limit:pour pressure:lative vapour density:nsity:ubility(ies) Water solubility:Solubility in other solvents:rtition coefficient: n- anol/water to-ignition temperature:composition temperature to-ignition temperature:viscosity, dynamic:Viscosity, kinematic colosive properties:idizing properties:face tension:	06/08/2022S00059662905per explosion limit / Upper nmability limit:No data availablewer explosion limit / Lower nmability limit:No data availablecour pressure:No data availablelative vapour density:No data availablensity:1.06 g/cm3 (20 °Cubility(ies):No data availableSolubility in other solvents:No data availablesolubility in other solvents:No data availabletrition coefficient: n- anol/water:No data availablecoignition temperature:610 °Ccomposition temperature:No data availablecosity Viscosity, dynamic:77 - 233 mPa.s ( 64 - 196 mPa.s (Viscosity, kinematic:No tata availableplosive properties:Not explosiveidizing properties:The substance or 39.4 mN/m, 0.1 %

# SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	None reasonably foreseeable. Stable under normal conditions. No dangerous reaction known under conditions of normal use.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	No decomposition if used as directed. None known. No hazardous decomposition products are known.



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# SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely route	s of	exposure
Ingestion Inhalation Skin contact Eye contact		
Acute toxicity		
Product:		
Acute oral toxicity	:	LD50 (Rat, female): 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 2.59 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
<u>Components:</u>		
fludioxonil (ISO):		
Acute oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 2.6 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
triethylamine:		
Acute oral toxicity	:	LD50 (Rat): 730 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 7.22 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 (Rat): 580 mg/kg
Skin corrosion/irritation		
Product:		
Species	:	Rabbit
Result		No skin irritation



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	Compo	onents:			
t	fludiox	onil (ISO):			
	Specie	S	:	Rabbit	
	Result		:	No skin irritation	
1	triethy	lamine:			
	Specie	S	:	Rabbit	
	Result		:	Corrosive after 3	minutes or less of exposure
:	Seriou	s eye damage/eye irı	ritat	ion	
<u> </u>	Produc	<u>&gt;t:</u>			
	Specie	S	:	Rabbit	
	Result		•	No eye irritation	
	Compo	onents:			
f	fludiox	onil (ISO):			
	Specie	S	:	Rabbit	
	Result		:	No eye irritation	
	-	lamine:			
	Result		:	Risk of serious da	amage to eyes.
	Respir	atory or skin sensitis	satio	on	
	Produc	st:			
	Test Ty	rpe	:	Buehler Test	
	Specie	S	:	Guinea pig	
	Result		:	Did not cause sei	nsitisation on laboratory animals.
	Compo	onents:			
1	fludiox	onil (ISO):			
	Specie	S	:	Guinea pig	
	Result		:	Did not cause se	nsitisation on laboratory animals.
	Germ o	cell mutagenicity			
	Compo	onents:			
1	fludiox	onil (ISO):			
	Germ o Assess	ell mutagenicity - ment	:	Animal testing did	d not show any mutagenic effects.
1	triethy	lamine:			
	Germ o Assess	ell mutagenicity - ment	:	In vitro tests did r	not show mutagenic effects



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Carc	inogenicity		
Com	ponents:		
	oxonil (ISO): inogenicity - Assess-	: No evidence	of carcinogenicity in animal studies.
Repr	oductive toxicity		
Com	ponents:		
fludio	oxonil (ISO):		
Repro sessr	oductive toxicity - As- ment	: No toxicity to	reproduction
trieth	ylamine:		
Repro sessr	oductive toxicity - As- ment	: No toxicity to	reproduction
STO	T - single exposure		
Com	ponents:		
trieth	ylamine:		
Asse	ssment		ce or mixture is classified as specific target organgle exposure, category 3 with respiratory tract

# SECTION 12. ECOLOGICAL INFORMATION

# Ecotoxicity

Product:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 5.4 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 30 mg/l Exposure time: 48 h
Toxicity to algae/aquatic : plants		ErC50 (Raphidocelis subcapitata (freshwater green alga)): 5.4 mg/l Exposure time: 96 h
		NOEC (Raphidocelis subcapitata (freshwater green alga)): 1 mg/l End point: Growth rate Exposure time: 96 h
		EC10 (Raphidocelis subcapitata (freshwater green alga)): 2.9 mg/l End point: Growth rate Exposure time: 96 h



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<u>Com</u>	ponents:			
fludi	oxonil (ISO):			
	city to fish	:	LC50 (Oncorhyr Exposure time:	nchus mykiss (rainbow trout)): 0.23 mg/l 96 h
			LC50 (Pimepha Exposure time:	les promelas (fathead minnow)): 0.7 mg/l 96 h
	city to daphnia and other tic invertebrates	:	EC50 (Daphnia Exposure time:	magna (Water flea)): 0.4 mg/l 48 h
			EC50 (Americar Exposure time:	nysis): 0.27 mg/l 96 h
Toxic plant	city to algae/aquatic s	:	ErC50 (Raphido 0.259 mg/l Exposure time:	ocelis subcapitata (freshwater green alga)): 96 h
			EC10 (Raphidoo 0.077 mg/l End point: Grow Exposure time:	
			ErC50 (Skeletor Exposure time:	nema costatum (marine diatom)): 0.43 mg/l 96 h
			NOEC (Skeletor End point: Grow Exposure time:	
Toxic icity)	sity to fish (Chronic tox-	:	NOEC (Oncorhy Exposure time:	/nchus mykiss (rainbow trout)): 0.04 mg/l 28 d
			NOEC (Pimepha Exposure time:	ales promelas (fathead minnow)): 0.018 mg/ 116 d
aqua	city to daphnia and other tic invertebrates (Chron-	:	NOEC (Daphnia Exposure time:	a magna (Water flea)): 0.035 mg/l 21 d
ic tox	ысцу <i>)</i>		NOEC (America Exposure time:	umysis): 0.018 mg/l 28 d
Toxic	sity to microorganisms	:	EC50 (activated Exposure time:	l sludge): > 1,000 mg/l 3 h
trieth	nylamine:			
	sity to fish	:	LC50 (Oncorhyr Exposure time:	nchus mykiss (rainbow trout)): 36 mg/l 96 h
Toxic plant	city to algae/aquatic s	:	ErC50 (Raphido mg/l Exposure time:	ocelis subcapitata (freshwater green alga)): S 72 h

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	Persis	tence and degradabil	lity		
	<u>Comp</u>	onents:			
	fludio	konil (ISO):			
	Biodeg	gradability	:	Result: Not readil	y biodegradable.
	Stabilit	y in water	:	Degradation half Remarks: Persist	
	triethy	lamine:			
	-	gradability	:	Result: Readily b	odegradable.
	Bioaco	cumulative potential			
	Comp	onents:			
		konil (ISO):			
	Bioaco	umulation	:	Remarks: Does n	ot bioaccumulate.
		on coefficient: n- I/water	:	log Pow: 4.12 (25	°C)
	Mobili	ty in soil			
	<u>Comp</u>	onents:			
	fludio	konil (ISO):			
		ution among environ-	:	Remarks: immob	le
		compartments y in soil	:	Dissipation time:	14 d
		,		Percentage dissip	bation: 50 % (DT50) t is not persistent.
	Other	adverse effects			
	<u>Comp</u>	onents:			
	fludio	konil (ISO):			
		s of PBT and vPvB	:	lating and toxic (F	not considered to be persistent, bioaccumu- PBT). This substance is not considered to be ad very bioaccumulating (vPvB).
	triethy	lamine:			
	-	s of PBT and vPvB	:	lating and toxic (F	not considered to be persistent, bioaccumu- PBT). This substance is not considered to be ad very bioaccumulating (vPvB).

# SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Refer to the product label for specific disposal/recycling infor- mation Do not contaminate ponds, waterways or ditches with chemi-



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Conta	aminated packaging	Where possible tion. If recycling is n local regulation Refer to the pro- mation Empty remainin Triple rinse cor Empty containe dling site for re	e of waste into sewer. e recycling is preferred to disposal or incinera- ot practicable, dispose of in compliance with ns. oduct label for specific disposal/recycling infor- ng contents.

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

### **International Regulations**

<b>UNRTDG</b> UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class Packing group Labels	:	(FLUDIOXONIL) 9 III 9
<b>IATA-DGR</b> UN/ID No. Proper shipping name	:	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (FLUDIOXONIL)
Class Packing group Labels Packing instruction (cargo aircraft)	:	9 III Miscellaneous 964
Packing instruction (passen- ger aircraft) Environmentally hazardous	:	964 yes
<b>IMDG-Code</b> UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUDIOXONIL)
Class Packing group Labels EmS Code Marine pollutant		9 III 9 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.

# **National Regulations**

TDG



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UN nu Propei	mber r shipping name	: UN 3082 : ENVIRONMI N.O.S. (FLUDIOXC	ENTALLY HAZARDOUS SUBSTANCE, LIQUID,
Labels ERG (	Code e pollutant	Dangerous C	nption from Part 3, Documentation, and Part 4, Goods Safety Marks, if transported solely on land cle or railway vehicle.

### 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.

### SECTION 15. REGULATORY INFORMATION

Warning, contains the allergen 1,2-benzisothiazolin-3-one and 2-bromo-2-nitropropane-1,3-diol Read the label, authorised under the Pest Control Products Act, prior to using or handling the pest control product

There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label:

NPRI Components	: triethylamine ethyl acetate ethanediol
The components of this	roduct are reported in the following inventories:

: This product contains the following components that are not on the Canadian DSL nor NDSL. fludioxonil (ISO)

#### **Canadian lists**

DSL

No substances are subject to a Significant New Activity Notification.

### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

		USA. ACGIH Threshold Limit Values (TLV) Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		Canada. British Columbia OEL Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA QC OEL	:	Québec. Regulation respecting occupational health and safe-

CA QC OEL / STEV



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ACGIH / TWA ACGIH / STEL CA AB OEL / TWA CA AB OEL / TWA CA BC OEL / TWA CA BC OEL / TWA CA BC OEL / TWA CA QC OEL / TWAEV		<ul> <li>ty, Schedule 1, Part 1: Permissible exposure values for airborne contaminants</li> <li>8-hour, time-weighted average</li> <li>Short-term exposure limit</li> <li>8-hour Occupational exposure limit</li> <li>15-minute occupational exposure limit</li> <li>8-hour time weighted average</li> <li>short-term exposure limit</li> <li>Time-Weighted Average Limit (TWA)</li> <li>Time-weighted average exposure value</li> </ul>			

: Short-term exposure value

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

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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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.