

Version	Revision Date:	SDS Number:	This version replaces all previous versions.
1.0	12/10/2020	S1439095568	

### **SECTION 1. IDENTIFICATION**

Product name	:	ENDIGO ZC
Design code.	:	A13623Q

Product Registration number : 100-1276

### Manufacturer or supplier's details

Company name of supplier Address		Syngenta Crop Protection, LLC Post Office Box 18300 Greensboro NC 27419 United States of America (USA)
Telephone	:	1 800 334 9481
Telefax	:	1 336 632 2192
Emergency telephone	:	1 800 888 8372

### Recommended use of the chemical and restrictions on use

Recommended use : Insecticide

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

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Oral)	:	Category 3
Acute toxicity (Inhalation)	:	Category 4
Skin sensitization	:	Category 1
Carcinogenicity	:	Category 1A
<b>GHS label elements</b> Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H301 Toxic if swallowed. H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H350 May cause cancer.
Precautionary Statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.



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		P272 Contam the workplace	rotective gloves/ protective clothing/ eye protection
		POISON CEN P302 + P352 P304 + P340 and keep con doctor if you f P308 + P313 attention. P333 + P313 attention.	<ul> <li>+ P330 IF SWALLOWED: Immediately call a NTER/ doctor. Rinse mouth.</li> <li>IF ON SKIN: Wash with plenty of soap and water.</li> <li>+ P312 IF INHALED: Remove person to fresh air nfortable for breathing. Call a POISON CENTER/feel unwell.</li> <li>IF exposed or concerned: Get medical advice/</li> <li>If skin irritation or rash occurs: Get medical advice</li> </ul>
		<b>Storage:</b> P405 Store lo	ocked up.
		<b>Disposal:</b> P501 Dispose posal plant.	e of contents/ container to an approved waste dis-

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
thiamethoxam	153719-23-4	12.6231
lambda-cyhalothrin	91465-08-6	9.4897
solvent naphtha (petroleum), highly	64742-94-5	>= 5 - < 10
arom.		
propane-1,2,3-triol	56-81-5	>= 5 - < 10
2-methyl-naphthalene	91-57-6	>= 1 - < 5
1-methyl-naphthalene	90-12-0	>= 1 - < 5
lignosulfonic acid, ethoxylated, sodi-	68611-14-3	>= 1 - < 5
um salts		
titanium dioxide	13463-67-7	>= 0.1 - < 1
sulfuric acid	7664-93-9	>= 0.1 - < 1
1,2-benzisothiazol-3(2H)-one	2634-33-5	>= 0.05 - < 0.1
A stual concentration is withhald on a	tion dia tanàna dia kaominina dia kaominina dia kaominina dia kaominina dia kaominina dia kaominina dia kaomini	

Actual concentration 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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If inhaled		respiration. Keep patient v	n into fresh air. irregular or stopped, administer artificial varm and at rest. in or poison control center immediately.		
In case of skin contact		: Take off all co Wash off imme If skin irritation			
In case of eye contact		: Rinse immedia for at least 15 Remove conta	ately with plenty of water, also under the eyelids, minutes.		
lf swa	allowed	: If swallowed, s container or la Do NOT induc			
Most important symptoms and effects, both acute and delayed Notes to physician		: Aspiration may Skin contact p numbness) are	v cause pulmonary edema and pneumonitis. aresthesia effects (itching, tingling, burning or e transient, lasting up to 24 hours. vomiting: contains petroleum distillates and/or ents.		

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Unsuitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Extinguishing media - large fires Alcohol-resistant foam 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 ingredients, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Flash back possible over considerable distance.
Further information	:	Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.
Special protective equipment for fire-fighters	:	

### 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	absorbent ma vermiculite) a local / nationa Clean contam Clean with de	ge, and then collect with non-combustible Iterial, (e.g. sand, earth, diatomaceous earth, nd place in container for disposal according to al regulations (see section 13). Ininated surface thoroughly. Itergents. Avoid solvents. Spose of contaminated wash water.
SECTION	7. HANDLING AND ST	ORAGE	
Advic	e on safe handling	Avoid contact When using c	otective measures against fire required. with skin and eyes. lo not eat, drink or smoke. protection see section 8.
Condi	itions for safe storage	: No special sto	brage conditions required. ers tightly closed in a dry, cool and well-

ventilated place.

Keep out of the reach of children.

Keep away from food, drink and animal feedingstuffs.

### 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
thiamethoxam	153719-23-4	TWA	3 mg/m3	Syngenta
lambda-cyhalothrin	91465-08-6	TWA	0.04 mg/m3 (Skin)	Syngenta
solvent naphtha (petroleum), highly arom.	64742-94-5	TWA	8 ppm 50 mg/m3	Supplier
		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
propane-1,2,3-triol	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
2-methyl-naphthalene	91-57-6	TWA	0.5 ppm	ACGIH
1-methyl-naphthalene	90-12-0	TWA	0.5 ppm	ACGIH
titanium dioxide	13463-67-7	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH
sulfuric acid	7664-93-9	TWA (Tho- racic particu- late matter)	0.2 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z-1
		TWA	1 mg/m3	OSHA P0



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Engin	eering 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.			
		Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.			
	nal protective equipn				
Respir	atory protection	<ul> <li>No personal respiratory protective equipment normally required.</li> <li>When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.</li> </ul>			
Hand p	protection				
Rei	marks	: Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things from the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chomical breaktbrough			
	otection nd body protection	<ul> <li>degradation or chemical breakthrough.</li> <li>No special protective equipment required.</li> <li>Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.</li> <li>Remove and wash contaminated clothing before re-use.</li> <li>Wear as appropriate:</li> <li>Impervious clothing</li> </ul>			
Protec	tive measures	<ul> <li>The use of technical measures should always have priority over the use of personal protective equipment.</li> <li>When selecting personal protective equipment, seek appropriate professional advice.</li> </ul>			

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: Light beige
Odor	: No data available



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	Odor Threshold	:	No data available
	рН	:	4.0 - 6.5 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
	Upper explosion limit / Upper flammability limit	:	No data available
	Lower explosion limit / Lower flammability limit	:	No data available
	Vapor pressure	:	No data available
	Relative vapor density	:	No data available
	Density	:	1.117 g/cm3 (77 °F / 25 °C)
	Solubility(ies) Solubility in other solvents	:	No data available
	Partition coefficient: n-	:	No data available
	octanol/water Autoignition temperature	:	833 °F / 445 °C
	Decomposition temperature	:	No data available
	Viscosity Viscosity, dynamic	:	No data available
	Explosive properties	:	Not explosive
	Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

### SECTION 10. STABILITY AND REACTIVITY

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



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### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely route Ingestion Inhalation Skin contact Eye contact Acute toxicity	s of	exposure
Product:		
Acute oral toxicity	:	LD50 (Rat, female): 98.11 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 3.34 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.
Acute dermal toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
Components:		
thiamethoxam:		
Acute oral toxicity	:	LD50 (Rat, male and female): 1,563 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 3.72 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
lambda-cyhalothrin:		
Acute oral toxicity	:	LD50 (Rat, female): 56 mg/kg
		LD50 (Rat, male): 79 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): 0.06 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rat, female): 696 mg/kg
		LD50 (Rat, male): 632 mg/kg
<b>2-methyl-naphthalene:</b> Acute oral toxicity	:	Assessment: The component/mixture is moderately toxic after single ingestion.



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1-met	thyl-naphthalene:			
Acute	oral toxicity	:	Assessment: The o single ingestion.	component/mixture is moderately toxic af
1,2-be	enzisothiazol-3(2H)-c	one:		
Acute	oral toxicity	:	LD50 (Rat, male):	670 mg/kg
Acute	dermal toxicity	:		nd female): > 2,000 mg/kg substance or mixture has no acute derma
Skin	corrosion/irritation			
Produ	uct:			
Speci Resul		:	Rabbit No skin irritation	
<u>Comp</u>	oonents:			
thiam	ethoxam:			
Speci		:	Rabbit	
Resul	t	:	No skin irritation	
lambo	da-cyhalothrin:			
Speci		:	Rabbit	
Resul Rema		:	No skin irritation May cause tempor exposed skin, calle	ary itching, tingling, burning or numbness ed paresthesia.
lignos	sulfonic acid, ethoxy	lated	sodium salts:	
Resul	t	:	Irritating to skin.	
sulfu	ric acid:			
Resul	t	:	Corrosive after 3 m	ninutes or less of exposure
1,2-be	enzisothiazol-3(2H)-c	one:		
Speci		:	Rabbit	
Resul	t	:	Mild skin irritation	
Serio	us eye damage/eye i	rritati	on	
<u>Produ</u>				
Speci		:	Rabbit	
Resul	t	:	No eye irritation	
<u>Comp</u>	oonents:			
thiam	ethoxam:			
Speci	20		Rabbit	



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Resul	t	:	No eye irritation	
lambo	da-cyhalothrin:			
Speci	es	:	Rabbit	
Resul		:	No eye irritation	
lignos	sulfonic acid, ethoxy	lated,	sodium salts:	
Resul	t	:	Eye irritation	
1,2-be	enzisothiazol-3(2H)-o	ne:		
Speci	es	:	Rabbit	
Resul		:	Risk of serious da	amage to eyes.
Respi	iratory or skin sensit	izatior	ı	
Produ				
Speci Resul			Guinea pig Does not cause s	kin sensitization.
Comp	oonents:			
thiam	ethoxam:			
Speci	es	:	Guinea pig	
Resul				nsitization on laboratory animals.
lambo	da-cyhalothrin:			
Test 1	-	:	Maximization Tes	t
Speci			Guinea pig	
Resul			Does not cause s	kin sensitization.
Test 1			Local lymph node	assay (LLNA)
Speci Resul			Mouse Does not cause s	kin sonsitization
itesui	ι	•	Does not cause s	
	enzisothiazol-3(2H)-o		Dach ab iliter an ar is	
Resul	t	:	Probability of evic	lence of skin sensitization in humans
Germ	cell mutagenicity			
<u>Comp</u>	oonents:			
	ethoxam:			
	cell mutagenicity -	:	Animal testing did	I not show any mutagenic effects.
lambo	da-cyhalothrin:			
	cell mutagenicity - ssment	:	Animal testing did	I not show any mutagenic effects.
	enzisothiazol-3(2H)-o			
Germ	cell mutagenicity -	:	Weight of evidence	ce does not support classification as a germ



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Asse	ssment			cell mutagen.	
Carc	inogenicit	у			
<u>Com</u>	ponents:				
thian	nethoxam:				
Carci ment	nogenicity	- Assess-	:	Weight of evide cinogen	nce does not support classification as a ca
lamb	da-cyhalo	thrin:			
Carci ment	nogenicity	- Assess-	:	Weight of evide cinogen	nce does not support classification as a ca
IARC		Group 1: Card sulfuric acid (Acid mists, s		genic to humans g inorganic)	7664-93-9
		•	ssib	ly carcinogenic t	o humans 13463-67-7
OSH				this product prea regulated carcin	sent at levels greater than or equal to 0.1% ogens.
NTP		Known to be l sulfuric acid	num	an carcinogen	7664-93-9
Repr	oductive t	oxicity			
<u>Com</u>	ponents:				
			:	Weight of evide reproductive to:	nce does not support classification for kicity
lamh	<b>da-cyhalo</b> oductive to	<b>thrin:</b> xicity - As-	:	Weight of evide	nce does not support classification for
		-			KICITY
Repro sessr		cposure			KICITY
Repression session	nent	cposure			kicity
Reprosessor STOT	ment <b>F-single e</b> >				kicity
Reprosessor STOT	nent <b>F-single e</b> > ponents:		:	The substance	
Reprosessor STOT <u>Com</u> thian Asse	nent <b>F-single ex</b> ponents: nethoxam:		:	The substance	or mixture is not classified as specific targe



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lignos	sulfonic acid, ethox	ylated, sodium salts	:
Asses	sment		e or mixture is classified as specific target organ le exposure, category 3 with respiratory tract
STOT	-repeated exposure	1	
<u>Comp</u>	oonents:		
thiam	ethoxam:		
Asses	sment		e or mixture is not classified as specific target t, repeated exposure.
lambo	la-cyhalothrin:		
Asses	sment		e or mixture is not classified as specific target t, repeated exposure.
Aspira	ation toxicity		
Comp	oonents:		
solve	nt naphtha (petrole	um), highly arom.:	
May b	e fatal if swallowed a	ind enters airways.	
1-met	hyl-naphthalene:		
	e fatal if swallowed a	ind enters airways.	

### Ecotoxicity

Pr	00	luo	ct:	

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.0106 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.00071 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 50 mg/l Exposure time: 72 h
		NOEC (Pseudokirchneriella subcapitata (green algae)): 16 mg/l Exposure time: 72 h
Components:		

### Components:

Toxicity to fish

thiamethoxam:	
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:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
	Exposure time: 96 h



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	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): > 100 mg/l 3 h
			EC50 (Cloeon sp. Exposure time: 48	
			EC50 (Chironomu Exposure time: 48	us riparius (harlequin fly)): 0.035 mg/l 3 h
Toxicit plants	y to algae/aquatic	:	ErC50 (Raphidoco 81.8 mg/l Exposure time: 72	elis subcapitata (freshwater green alga)): > 2 h
			NOEC (Raphidoc 81.8 mg/l End point: Growth Exposure time: 72	
Toxicit icity)	y to fish (Chronic tox-	:	NOEC (Oncorhyn Exposure time: 28 Test Type: flow-th	
			NOEC (Oncorhyn Exposure time: 88 Test Type: Early-l	
aquatio	Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)		NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 100 mg/l I d
			NOEC (Chironom Exposure time: 30	us riparius (Midge larvae)): 0.01 mg/l ) d
Toxicit	y to microorganisms	:	EC50 (activated s Exposure time: 3	iludge): > 100 mg/l h
lambd	a-cyhalothrin:			
	y to fish	:	LC50 (Leuciscus Exposure time: 96	idus (Golden orfe)): 0.000078 mg/l S h
			LC50 (Ictalurus pu Exposure time: 96	unctatus (channel catfish)): 0.00016 mg/l 5 h
	Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 0.00036 mg/l 3 h
			LC50 (Americamy Exposure time: 48	/sis): 0.000007 mg/l 3 h
			EC50 (Hyalella az Exposure time: 48	zteca (Amphipod)): 0.000002 mg/l 3 h
Toxicit plants	y to algae/aquatic	:	ErC50 (Raphidoco 0.31 mg/l Exposure time: 96	elis subcapitata (freshwater green alga)): > S h



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	ctor (Acute aquatic tox-	:	100,000
	icity) Toxicity to fish (Chronic tox- icity)		NOEC (Pimephales promelas (fathead minnow)): 0.000031 mg/l Exposure time: 300 d
aquat	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		NOEC (Daphnia magna (Water flea)): 0.000002 mg/l Exposure time: 21 d
			NOEC (Americamysis): 0.00022 µg/l Exposure time: 28 d
	ctor (Chronic aquatic	:	100,000
toxicit Toxici	ty to microorganisms	:	EC50 (activated sludge): > 100 mg/l Exposure time: 3 h
solve	nt naphtha (petroleum)	), hi	ighly arom.:
Ecoto	oxicology Assessment		
Chron	ic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.
titanio	um dioxide:		
Toxici plants	ity to algae/aquatic	:	EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l Exposure time: 72 h
Ecoto	oxicology Assessment		
Acute	aquatic toxicity	:	This product has no known ecotoxicological effects.
Chron	ic aquatic toxicity	:	This product has no known ecotoxicological effects.
1,2-benzisothiazol-3(2H)-on		e:	
Toxici	ity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 2.18 mg/l Exposure time: 96 h
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia magna (Water flea)): 2.94 mg/l Exposure time: 48 h
Toxici plants	ity to algae/aquatic	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.15 mg/l Exposure time: 72 h
			EC10 (Raphidocelis subcapitata (freshwater green alga)): 0.04 mg/l End point: Growth rate Exposure time: 72 h
Toxici icity)	ty to fish (Chronic tox-	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 0.3 mg/l Exposure time: 28 d
	ty to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia): 1.7 mg/l Exposure time: 21 d



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ersion 0	Revision Date: 12/10/2020	SDS Number: S1439095568	This version replaces all previous versions.
ic toxic	city)		
Persis	stence and degradabi	lity	
<u>Comp</u>	onents:		
thiam	ethoxam:		
Biode	gradability	: Result: Not re	adily biodegradable.
Stabili	ty in water	: Degradation I Remarks: Pro	nalf life: 11 d oduct is not persistent.
lambd	la-cyhalothrin:		
Biodeg	gradability	: Result: Not re	adily biodegradable.
Stabilit	ty in water		nalf life (DT50): 7 d oduct is not persistent.
1,2-be	nzisothiazol-3(2H)-or	e:	
Biodeg	gradability	: Result: rapidly	y degradable
Bioac	cumulative potential		
<u>Comp</u>	onents:		
thiam	ethoxam:		
Bioaco	cumulation	: Remarks: Lov	w bioaccumulation potential.
	on coefficient: n- bl/water	: log Pow: -0.13	3 (77 °F / 25 °C)
	la-cyhalothrin:		
Bioaco	cumulation	: Remarks: Bio	accumulates
1,2-be	nzisothiazol-3(2H)-or	e:	
Bioaco	cumulation	: Remarks: Bio	accumulation is unlikely.
Mobili	ty in soil		
<u>Comp</u>	onents:		
thiam	ethoxam:		
	ution among environ- I compartments	: Remarks: Mo	derately mobile in soils
Stabili	ty in soil		ne: 51 d issipation: 50 % (DT50) oduct is not persistent.
lambd	la-cyhalothrin:		
	ution among environ- l compartments	: Remarks: imr	nobile
	ty in soil		ne: 56 d issipation: 50 % (DT50) oduct is not persistent.



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Other	r adverse effects						
Com	oonents:						
lamb	da-cyhalothrin:						
	Its of PBT and vPvB ssment	lating and toxic	s not considered to be persistent, bioaccumu- (PBT). This substance is not considered to be and very bioaccumulating (vPvB).				
1,2-b	enzisothiazol-3(2H)-on	ie:					
	Its of PBT and vPvB ssment	lating and toxic	s not considered to be persistent, bioaccumu- (PBT). This substance is not considered to be and very bioaccumulating (vPvB).				

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues		Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.
Contaminated packaging	:	Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

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

### International Regulations

UNRTDG		
UN number	:	UN 3352
Proper shipping name	:	PYRETHROID PESTICIDE, LIQUID, TOXIC (LAMBDA-CYHALOTHRIN)
Class	:	6.1
Packing group	:	III
Labels	:	6.1
IATA-DGR		
UN/ID No.	:	UN 3352
Proper shipping name	:	Pyrethroid pesticide, liquid, toxic (LAMBDA-CYHALOTHRIN)
Class	:	6.1
Packing group	:	III
Labels	:	Toxic
Packing instruction (cargo aircraft)	:	663
Packing instruction (passen- ger aircraft)	:	655



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IMDG-Code	
UN number	: UN 3352
Proper shipping name	: PYRETHROID PESTICIDE, LIQUID, TOXIC
	(LAMBDA-CYHALOTHRIN)
Class	: 6.1
Packing group	: III
Labels	: 6.1
EmS Code	: F-A, S-A
Marine pollutant	: yes

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

Not applicable for product as supplied.

### **Domestic regulation**

<b>49 CFR</b> UN/ID/NA number Proper shipping name	:	UN 3352 Pyrethroid pesticide, liquid toxic (LAMBDA-CYHALOTHRIN)
Class	:	6.1
Packing group	:	III
Labels	:	TOXIC
ERG Code	:	151
Marine pollutant	:	no

#### 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**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label: Warning

May be fatal if inhaled.

Causes skin irritation.

Causes moderate eye irritation.

Harmful if absorbed through skin.

Do not get on skin or clothing.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove and wash contaminated clothing before re-use.

#### CERCLA Reportable Quantity

Components	CAS-No.		Calculated product RQ				
		(lbs)	(lbs)				
sulfuric acid	7664-93-9	1000	*				
* Colouistad DO avecada reasonably attainable upper limit							

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
sulfuric acid	7664-93-9	1000	*



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\*: Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Acute toxicity (any route of exposure) Respiratory or skin sensitization Carcinogenicity
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### California Prop. 65

WARNING: This product can expose you to chemicals including titanium dioxide, benzene, 1,3diisocyanatomethyl-, sulfuric acid, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

### The ingredients of this product are reported in the following inventories:

TSCA	
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: Product contains substance(s) not listed on TSCA inventory.

**TSCA** list

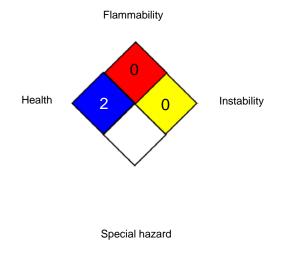
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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



### NFPA 704:



### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)



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NIOSH	H REL			Recommended Exposure Limits
OSHA	. P0		SA. OSHA - 910.1000	TABLE Z-1 Limits for Air Contaminants -
OSHA	A Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 L its for Air Contaminants			
ACGIH	H/TWA	: 8-	hour, time-v	veighted average
NIOSH REL / TWA : Time-weighted average workday during a 40-hou		d average concentration for up to a 10-hour g a 40-hour workweek		
OSHA	P0 / TWA	: 8-	hour time w	eighted average
OSHA	Z-1 / TWA	: 8-	hour time w	eighted average

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals: ASTM - American Society for the Testing of Materials: bw - Body weight: CERCLA -Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL -No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS -Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

**Revision Date** 

12/10/2020

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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.

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