

**ENDIGO ZCX**Version  
1.0Revision Date:  
11/22/2019SDS Number:  
S00000106388

This version replaces all previous versions.

**SECTION 1. IDENTIFICATION**

Product name : ENDIGO ZCX

Design code. : A18481A

Product Registration number : 100-1458

**Manufacturer or supplier's details**

Company name of supplier : Syngenta Crop Protection, LLC

Address : 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

Restrictions on use : Restricted Use Pesticide

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with 29 CFR 1910.1200**

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Skin irritation : Category 2

Skin sensitization : Category 1

Carcinogenicity : Category 1A

**GHS label elements**

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H302 + H332 Harmful if swallowed or if inhaled.

**ENDIGO ZCX**Version  
1.0Revision Date:  
11/22/2019SDS Number:  
S00000106388

This version replaces all previous versions.

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H350 May cause cancer.

## Precautionary Statements

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**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.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

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

Chemical name	CAS-No.	Concentration (% w/w)
thiamethoxam	153719-23-4	19.17
lambda-cyhalothrin	91465-08-6	9.59
solvent naphtha (petroleum), highly arom.	64742-94-5	>= 5 - < 10
propane-1,2-diol	57-55-6	>= 5 - < 10
2-methyl-naphthalene	91-57-6	>= 1 - < 5
1-methyl-naphthalene	90-12-0	>= 1 - < 5
titanium dioxide	13463-67-7	>= 1 - < 5
sulfuric acid	7664-93-9	>= 0.1 - < 1

**ENDIGO ZCX**

Version 1.0	Revision Date: 11/22/2019	SDS Number: S00000106388	This version replaces all previous versions.
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1,2-benzisothiazol-3(2H)-one	2634-33-5	>= 0.05 - < 0.1
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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.
- If inhaled : Take the victim into fresh air.  
If breathing is irregular or stopped, administer artificial respiration.  
Keep patient warm and at rest.  
Call a physician or poison control center immediately.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off immediately with plenty of water.  
If skin irritation persists, call a physician.  
Wash contaminated clothing before re-use.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Remove contact lenses.  
Immediate medical attention is required.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label.  
Do NOT induce vomiting.
- Most important symptoms and effects, both acute and delayed : Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours.
- Notes to physician : There is no specific antidote available.  
Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Extinguishing media - small fires  
Use water spray, alcohol-resistant foam, dry chemical or carbon 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 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.

## ENDIGO ZCX

Version 1.0      Revision Date: 11/22/2019      SDS Number: S00000106388      This version replaces all previous versions.

- 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 : Wear full protective clothing and self-contained breathing apparatus.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency 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.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Clean contaminated surface thoroughly.  
Clean with detergents. Avoid solvents.  
Retain and dispose of contaminated wash water.

### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Hydrogen cyanide gas may be released during opening and dispensing.  
Avoid breathing air from container headspace.  
When using do not eat, drink or smoke.  
For personal protection see section 8.
- Conditions for safe storage : No special storage conditions required.  
Keep containers 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 parameters / Permissible concentration	Basis
thiamethoxam	153719-23-4	TWA	3 mg/m <sup>3</sup>	Syngenta
lambda-cyhalothrin	91465-08-6	TWA	0.04 mg/m <sup>3</sup> (Skin)	Syngenta
solvent naphtha (petroleum), highly arom.	64742-94-5	TWA	8 ppm 50 mg/m <sup>3</sup>	Supplier
		TWA	200 mg/m <sup>3</sup>	ACGIH

## ENDIGO ZCX

Version  
1.0Revision Date:  
11/22/2019SDS Number:  
S00000106388

This version replaces all previous versions.

			(total hydrocarbon vapor)	
propane-1,2-diol	57-55-6	TWA	10 mg/m3	US WEEL
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	10 mg/m3 (Titanium dioxide)	ACGIH
sulfuric acid	7664-93-9	TWA (Tho-racic fraction)	0.2 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z-1

### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
hydrogen cyanide	74-90-8	C	4.7 ppm (Cyanide)	ACGIH
		ST	4.7 ppm 5 mg/m3	NIOSH REL
		TWA	10 ppm 11 mg/m3	OSHA Z-1

**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.

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.

### Personal protective equipment

**Respiratory protection** : Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

**ENDIGO ZCX**Version  
1.0Revision Date:  
11/22/2019SDS Number:  
S00000106388

This version replaces all previous versions.

## Hand protection

Remarks : 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 breakthrough 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 chemical breakthrough.

Eye protection : No special protective equipment required.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.  
Remove and wash contaminated clothing before re-use.  
Wear as appropriate:  
Impervious clothing

Protective measures : The use of technical measures should always have priority over the use of personal protective equipment.  
When selecting personal protective equipment, seek appropriate professional advice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Color : off-white

Odor : No data available

Odor Threshold : No data available

pH : 5.5  
Concentration: 100 % 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

**ENDIGO ZCX**

Version 1.0	Revision Date: 11/22/2019	SDS Number: S00000106388	This version replaces all previous versions.
----------------	------------------------------	-----------------------------	--

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
Relative density	:	No data available
Density	:	1.1293 g/cm3
Solubility(ies) Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	878 °F / 470 °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	:	None reasonably foreseeable.
Chemical stability	:	Hydrogen cyanide gas may develop in the headspace of containers at normal storage temperatures.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	None known.
Incompatible materials	:	None known.
Hazardous decomposition products	:	hydrogen cyanide

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Ingestion  
Inhalation

**ENDIGO ZCX**Version  
1.0Revision Date:  
11/22/2019SDS Number:  
S00000106388

This version replaces all previous versions.

Skin contact

Eye contact

**Acute toxicity****Product:**

Acute oral toxicity : LD50 (Rat, female): estimated 310.2 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 2.51 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): &gt; 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 inhalation 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

**2-methyl-naphthalene:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

**1-methyl-naphthalene:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

**1,2-benzisothiazol-3(2H)-one:**



**ENDIGO ZCX**

Version 1.0	Revision Date: 11/22/2019	SDS Number: S00000106388	This version replaces all previous versions.
----------------	------------------------------	-----------------------------	--

Acute oral toxicity : LD50 (Rat): 1,020 mg/kg

**Skin corrosion/irritation****Product:**

Species : Rabbit  
Result : Skin irritation

**Components:****thiamethoxam:**

Species : Rabbit  
Result : No skin irritation

**lambda-cyhalothrin:**

Species : Rabbit  
Result : No skin irritation  
Remarks : May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

**sulfuric acid:**

Result : Corrosive after 3 minutes or less of exposure

**1,2-benzisothiazol-3(2H)-one:**

Result : Irritating to skin.

**Serious eye damage/eye irritation****Product:**

Species : Rabbit  
Result : No eye irritation

**Components:****thiamethoxam:**

Species : Rabbit  
Result : No eye irritation

**lambda-cyhalothrin:**

Species : Rabbit  
Result : No eye irritation

**1,2-benzisothiazol-3(2H)-one:**

Result : Risk of serious damage to eyes.

**Respiratory or skin sensitization****Product:**

Species : Guinea pig

**ENDIGO ZCX**

Version 1.0	Revision Date: 11/22/2019	SDS Number: S00000106388	This version replaces all previous versions.
----------------	------------------------------	-----------------------------	--

Method	: Buehler Test
Result	: Not a skin sensitizer.
Result	: May cause sensitization by skin contact.
Remarks	: Experience with human exposure

**Components:****thiamethoxam:**

Species	: Guinea pig
Result	: Does not cause skin sensitization.

**lambda-cyhalothrin:**

Test Type	: Maximization Test
Species	: Guinea pig
Result	: Does not cause skin sensitization.

Test Type	: Local lymph node assay (LLNA)
Species	: Mouse
Result	: Does not cause skin sensitization.

**1,2-benzisothiazol-3(2H)-one:**

Result	: Probability or evidence of skin sensitization in humans
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**Germ cell mutagenicity****Components:****thiamethoxam:**

Germ cell mutagenicity - Assessment	: Animal testing did not show any mutagenic effects.
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**lambda-cyhalothrin:**

Germ cell mutagenicity - Assessment	: Animal testing did not show any mutagenic effects.
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**Carcinogenicity****Components:****thiamethoxam:**

Carcinogenicity - Assessment	: Liver tumors noted in mice that are not relevant to humans.
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**lambda-cyhalothrin:**

Carcinogenicity - Assessment	: Weight of evidence does not support classification as a carcinogen
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**ENDIGO ZCX**Version  
1.0Revision Date:  
11/22/2019SDS Number:  
S00000106388

This version replaces all previous versions.

**Reproductive toxicity****Components:****thiamethoxam:**

Reproductive toxicity - Assessment : No toxicity to reproduction

**lambda-cyhalothrin:**

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

**STOT-single exposure****Components:****lambda-cyhalothrin:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT-repeated exposure****Components:****lambda-cyhalothrin:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Repeated dose toxicity****Components:****thiamethoxam:**

Remarks : Did not show neurotoxicity in animal experiments.

**Aspiration toxicity****Components:****solvent naphtha (petroleum), highly arom.:**

May be fatal if swallowed and enters airways.

**1-methyl-naphthalene:**

May be fatal if swallowed and enters airways.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****thiamethoxam:**

## ENDIGO ZCX

Version 1.0      Revision Date: 11/22/2019      SDS Number: S00000106388      This version replaces all previous versions.

- |  |   |  |
|--|---|--|
| Toxicity to fish   | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l<br>Exposure time: 96 h  |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 (Daphnia magna (Water flea)): > 100 mg/l<br>Exposure time: 48 h<br><br>EC50 (Cloeon sp.): 0.014 mg/l<br>Exposure time: 48 h<br><br>EC50 (Chironomus riparius (harlequin fly)): 0.035 mg/l<br>Exposure time: 48 h            |
| Toxicity to algae/aquatic plants                                       | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): > 81.8 mg/l<br>Exposure time: 72 h<br><br>NOEC (Pseudokirchneriella subcapitata (green algae)): 81.8 mg/l<br>End point: Growth rate<br>Exposure time: 72 h                |
| M-Factor (Acute aquatic toxicity)                                      | : | 10   |
| Toxicity to fish (Chronic toxicity)                                    | : | NOEC (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l<br>Exposure time: 28 d<br>Test Type: flow-through test<br><br>NOEC (Oncorhynchus mykiss (rainbow trout)): > 20 mg/l<br>Exposure time: 88 d<br>Test Type: Early-life Stage |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia magna (Water flea)): 100 mg/l<br>Exposure time: 21 d<br><br>NOEC (Chironomus riparius (Midge larvae)): 0.01 mg/l<br>Exposure time: 30 d  |
| M-Factor (Chronic aquatic toxicity)                                    | : | 10   |
| Toxicity to microorganisms   | : | EC50 (activated sludge): > 100 mg/l<br>Exposure time: 3 h  |

### lambda-cyhalothrin:

- |   |   |  |
|---|---|--|
| Toxicity to fish                                    | : | LC50 (Leuciscus idus (Golden orfe)): 0.000078 mg/l<br>Exposure time: 96 h<br><br>LC50 (Ictalurus punctatus (channel catfish)): 0.00016 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0.00036 mg/l<br>Exposure time: 48 h   |

## ENDIGO ZCX

Version 1.0      Revision Date: 11/22/2019      SDS Number: S00000106388      This version replaces all previous versions.

		LC50 ( <i>Americamysis</i> ): 0.000007 mg/l Exposure time: 48 h
		EC50 ( <i>Hyalella azteca</i> (Amphipod)): 0.000002 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 ( <i>Pseudokirchneriella subcapitata</i> (green algae)): > 0.31 mg/l Exposure time: 96 h
M-Factor (Acute aquatic toxicity)	:	100,000
Toxicity to fish (Chronic toxicity)	:	NOEC ( <i>Pimephales promelas</i> (fathead minnow)): 0.000031 mg/l Exposure time: 300 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC ( <i>Daphnia magna</i> (Water flea)): 0.000002 mg/l Exposure time: 21 d
		NOEC ( <i>Americamysis</i> ): 0.00022 µg/l Exposure time: 28 d
M-Factor (Chronic aquatic toxicity)	:	100,000
Toxicity to microorganisms	:	EC50 (activated sludge): > 100 mg/l Exposure time: 3 h

### **solvent naphtha (petroleum), highly arom.:**

#### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

### **titanium dioxide:**

Toxicity to algae/aquatic plants : EC50 (*Skeletonema costatum* (marine diatom)): > 10,000 mg/l  
Exposure time: 72 h

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

### **1,2-benzisothiazol-3(2H)-one:**

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

**ENDIGO ZCX**Version  
1.0Revision Date:  
11/22/2019SDS Number:  
S00000106388

This version replaces all previous versions.

**Persistence and degradability****Components:****thiamethoxam:**

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 11 d  
Remarks: Product is not persistent.

**lambda-cyhalothrin:**

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life (DT50): 7 d  
Remarks: Product is not persistent.

**Bioaccumulative potential****Components:****thiamethoxam:**

Bioaccumulation : Remarks: Low bioaccumulation potential.

Partition coefficient: n-octanol/water : log Pow: -0.13 (77 °F / 25 °C)

**lambda-cyhalothrin:**

Bioaccumulation : Remarks: Bioaccumulates

**Mobility in soil****Components:****thiamethoxam:**

Distribution among environmental compartments : Remarks: Moderately mobile in soils

Stability in soil : Dissipation time: 51 d  
Percentage dissipation: 50 % (DT50)  
Remarks: Product is not persistent.

**lambda-cyhalothrin:**

Distribution among environmental compartments : Remarks: immobile

Stability in soil : Dissipation time: 56 d  
Percentage dissipation: 50 % (DT50)  
Remarks: Product is not persistent.

**ENDIGO ZCX**Version  
1.0Revision Date:  
11/22/2019SDS Number:  
S00000106388

This version replaces all previous versions.

**Other adverse effects****Components:****lambda-cyhalothrin:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent 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 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(LAMBDA-CYHALOTHRIN AND THIAMETHOXAM)  
Class : 9  
Packing group : III  
Labels : 9

**IATA-DGR**

- UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(LAMBDA-CYHALOTHRIN AND THIAMETHOXAM)  
Class : 9  
Packing group : III  
Labels : Class 9 - Miscellaneous dangerous substances and articles  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Environmentally hazardous : yes

**IMDG-Code**

- UN number : UN 3082

## ENDIGO ZCX

Version 1.0      Revision Date: 11/22/2019      SDS Number: S00000106388      This version replaces all previous versions.

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(LAMBDA-CYHALOTHRIN AND THIAMETHOXAM)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
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

#### 49 CFR

Not regulated as a dangerous good

Remarks : Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

### 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 swallowed.

Causes moderate eye irritation.

Do not get in eyes, on skin, or on clothing.

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

### EPCRA - Emergency Planning and Community Right-to-Know

#### CERCLA Reportable Quantity

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

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

\*: 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)



## ENDIGO ZCX

Version  
1.0Revision Date:  
11/22/2019SDS Number:  
S00000106388

This version replaces all previous versions.

Skin corrosion or irritation  
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.

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

TSCA : Substance(s) not listed on TSCA inventory

### TSCA list

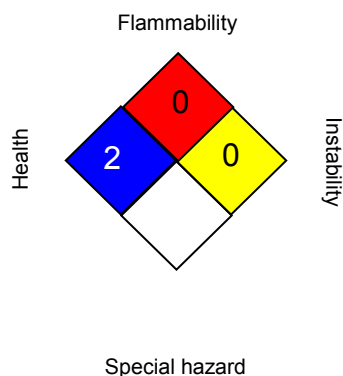
No substances are subject to a Significant New Use Rule.

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

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



#### HMIS® IV:

HEALTH	*	2
FLAMMABILITY		0
PHYSICAL HAZARD		0

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)  
 NIOSH REL : USA. NIOSH Recommended Exposure Limits  
 OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
 US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)  
 ACGIH / TWA : 8-hour, time-weighted average  
 ACGIH / C : Ceiling limit  
 NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek  
 NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday  
 OSHA Z-1 / TWA : 8-hour time weighted average  
 US WEEL / TWA : 8-hr TWA

**ENDIGO ZCX**

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AICS - Australian Inventory of Chemical Substances; 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 : 11/22/2019

The information provided in this Material 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.

US / Z8