

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AVICTA 500 FS

Version	Revision Date:	SDS Number:	Date of last issue: -
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### SECTION 1. IDENTIFICATION

Product name : AVICTA 500 FS  
Design code : A14006D

Product Registration number : 100-1204

#### 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

E-mail address : sds.requests@syngenta.com  
Emergency telephone : 1 800 888 8372

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

Recommended use : Seed treatment

Restrictions on use : General Use Pesticide

### SECTION 2. HAZARDS IDENTIFICATION

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

Acute toxicity (Oral) : Category 2

Acute toxicity (Inhalation) : Category 2

Reproductive toxicity : Category 2

Specific target organ toxicity - repeated exposure : Category 1 (Nervous system)

#### GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H300 + H330 Fatal if swallowed or if inhaled.  
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.  
H372 Causes damage to organs (Nervous system) through prolonged or repeated exposure.

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### 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.  
P260 Do not breathe mist or vapors.  
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.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P284 Wear respiratory protection.

#### Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

#### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
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

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	71751-41-2	46.2963
ethanol	64-17-5	$\geq 5 - < 10$
propane-1,2-diol	57-55-6	$\geq 5 - < 10$
n-hexane	110-54-3	$\geq 0.1 - < 1$
methanol	67-56-1	$\geq 0.1 - < 1$

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

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- |   |   |   |
|---|---|---|
| If inhaled  | : | center or physician, or going for treatment.<br>Take the victim into fresh air.<br>If breathing is irregular or stopped, administer artificial respiration.<br>Keep patient warm and at rest.<br>Call a physician or poison control center immediately.   |
| In case of skin contact                                     | : | Take off all contaminated clothing immediately.<br>Wash off immediately with plenty of water.<br>If skin irritation persists, call a physician.<br>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.<br>Remove contact lenses.<br>Immediate medical attention is required.  |
| If swallowed  | : | If swallowed, seek medical advice immediately and show this container or label.<br>Do NOT induce vomiting.  |
| Most important symptoms and effects, both acute and delayed | : | Lack of coordination<br>Tremors<br>Dilatation of the pupil<br>Fatal if swallowed or if inhaled.<br>Suspected of damaging fertility. Suspected of damaging the unborn child.<br>Causes damage to organs through prolonged or repeated exposure.  |
| Notes to physician  | : | This material is believed to enhance GABA activity in animals. It is probably wise to avoid drugs that enhance GABA activity (barbi<br>Toxicity can be minimized by early administration of chemical absorbents (e.g. activated charcoal).<br>If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged.<br>Appropriate supportive parental fluid replacement therapy should be given, along with other required supportive measures as indicated by clinical signs, symptoms and measurements. |

## SECTION 5. FIRE-FIGHTING MEASURES

- |                                       |   |   |
|---------------------------------------|---|---|
| Suitable extinguishing media          | : | Extinguishing media - small fires<br>Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.<br>Extinguishing media - large fires<br>Alcohol-resistant foam<br>or<br>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).<br>Exposure to decomposition products may be a hazard to |

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health.

Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)

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 : No special protective measures against fire required.  
Avoid contact with skin and eyes.  
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
abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	71751-41-2	TWA	0.02 mg/m <sup>3</sup>	Syngenta
ethanol	64-17-5	STEL	1,000 ppm	ACGIH

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		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	OSHA P0
propane-1,2-diol	57-55-6	TWA	10 mg/m <sup>3</sup>	US WEEL
n-hexane	110-54-3	TWA	50 ppm	ACGIH
		TWA	50 ppm 180 mg/m <sup>3</sup>	NIOSH REL
		TWA	500 ppm 1,800 mg/m <sup>3</sup>	OSHA Z-1
		TWA	50 ppm 180 mg/m <sup>3</sup>	OSHA P0
methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m <sup>3</sup>	NIOSH REL
		ST	250 ppm 325 mg/m <sup>3</sup>	NIOSH REL
		TWA	200 ppm 260 mg/m <sup>3</sup>	OSHA Z-1
		STEL	250 ppm 325 mg/m <sup>3</sup>	OSHA P0
		TWA	200 ppm 260 mg/m <sup>3</sup>	OSHA P0

### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
n-hexane	110-54-3	2,5-Hexanedione	Urine	End of shift	0.5 mg/l	ACGIH BEI
methanol	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposure ceases)	15 mg/l	ACGIH BEI

**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

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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.

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 : pink

Odor : No data available

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Odor Threshold	:	No data available
pH	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and 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
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	:	1.08 g/cm <sup>3</sup>
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	689 °F / 365 °C
Decomposition temperature	:	No data available
Viscosity		
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Particle characteristics		
Particle size	:	No data available

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.

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Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	No decomposition if used as directed.
Incompatible materials	:	None known.
Hazardous decomposition products	:	No hazardous decomposition products are known.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Ingestion  
Inhalation  
Skin contact  
Eye contact

#### Acute toxicity

Fatal if swallowed or if inhaled.

#### Product:

Acute oral toxicity	:	LD50 (Rat, female): > 5 - < 50 mg/kg Assessment: The component/mixture is highly toxic after single ingestion.
Acute inhalation toxicity	:	LC50 (Rat, male and female): 0.3521 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): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity

#### Components:

##### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Acute oral toxicity	:	LD50 (Rat, male): 8.7 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, female): > 0.034 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rat, male): 200 - 300 mg/kg Assessment: The component/mixture is toxic after single contact with skin.

##### **ethanol:**

Acute oral toxicity	:	LD50 (Rat): 10,470 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 1,800 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity



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Acute dermal toxicity : LD50 (Rabbit): 15,800 mg/kg

### propane-1,2-diol:

Acute oral toxicity : LD50 (Rat): > 20,000 mg/kg

Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rabbit): 317,042 mg/l  
Exposure time: 2 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### n-hexane:

Acute inhalation toxicity : LC50 (Rat): 48000 ppm  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

### methanol:

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

Acute inhalation toxicity : Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : Assessment: The component/mixture is toxic after single contact with skin.

### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

### Product:

Species : Rabbit  
Result : No skin irritation

### Components:

#### abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

Species : Rabbit  
Result : No skin irritation

### ethanol:

Result : No skin irritation

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### propane-1,2-diol:

Result : No skin irritation

### n-hexane:

Species : Rabbit  
Result : Irritating to skin.

### methanol:

Species : Rabbit  
Result : No skin irritation

### Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

#### Product:

Species : Rabbit  
Result : No eye irritation

#### Components:

### abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

Species : Rabbit  
Result : No eye irritation

### ethanol:

Result : No eye irritation

### propane-1,2-diol:

Result : No eye irritation

### methanol:

Species : Rabbit  
Result : No eye irritation

### Respiratory or skin sensitization

#### Skin sensitization

Based on available data, the classification criteria are not met.

#### Respiratory sensitization

Not classified due to lack of data.

#### Product:

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

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### Components:

#### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

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

#### **ethanol:**

Result	:	Does not cause skin sensitization.
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#### **propane-1,2-diol:**

Result	:	Does not cause skin sensitization.
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#### **methanol:**

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

### **Germ cell mutagenicity**

Not classified due to lack of data.

### Components:

#### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

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

Germ cell mutagenicity - Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.
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#### **propane-1,2-diol:**

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

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

Not classified due to lack of data.

### Components:

#### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Carcinogenicity - Assessment	:	No evidence of carcinogenicity in animal studies.
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#### **ethanol:**

Carcinogenicity - Assessment	:	No evidence of carcinogenicity in animal studies.
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#### **propane-1,2-diol:**

Carcinogenicity - Assessment	:	No evidence of carcinogenicity in animal studies.
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Assessment

### **methanol:**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

### **Reproductive toxicity**

Suspected of damaging fertility. Suspected of damaging the unborn child.

### **Components:**

#### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

#### **ethanol:**

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

#### **propane-1,2-diol:**

Reproductive toxicity - Assessment : No toxicity to reproduction, No effects on or via lactation  
Animal testing did not show any effects on fetal development.

#### **n-hexane:**

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

#### **methanol:**

Reproductive toxicity - Assessment : No toxicity to reproduction

### **STOT-single exposure**

Not classified due to lack of data.

### **Components:**

#### **ethanol:**

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

#### **propane-1,2-diol:**

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

#### **n-hexane:**

Assessment : May cause drowsiness or dizziness.

#### **methanol:**

Target Organs : Eyes, Central nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.

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### STOT-repeated exposure

Causes damage to organs (Nervous system) through prolonged or repeated exposure.

#### Components:

##### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Target Organs	:	Nervous system
Assessment	:	The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

##### **ethanol:**

Assessment	:	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
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##### **propane-1,2-diol:**

Assessment	:	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
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##### **n-hexane:**

Target Organs	:	Nervous system
Assessment	:	May cause damage to organs through prolonged or repeated exposure.

##### **methanol:**

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

Not classified due to lack of data.

#### Components:

##### **propane-1,2-diol:**

No aspiration toxicity classification

##### **n-hexane:**

May be fatal if swallowed and enters airways.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 0.0439 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.00011 mg/l Exposure time: 48 h

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### Components:

#### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.0027 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia pulex (Water flea)): 0.00012 mg/l Exposure time: 48 h  EC50 (Americamysis): 0.000022 mg/l Exposure time: 96 h
Toxicity to algae/aquatic plants	:	ErC50 (Navicula pelliculosa (Freshwater diatom)): > 1 mg/l Exposure time: 96 h  EC10 (Navicula pelliculosa (Freshwater diatom)): 0.71 mg/l End point: Growth rate Exposure time: 96 h  EC10 (Skeletonema costatum (marine diatom)): 0.095 mg/l End point: Growth rate Exposure time: 72 h  ErC50 (Skeletonema costatum (marine diatom)): 0.11 mg/l Exposure time: 72 h
Toxicity to fish (Chronic toxicity)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 0.00052 mg/l Exposure time: 72 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	EC10 (Daphnia magna (Water flea)): 0.0032 µg/l Exposure time: 21 d  NOEC (Americamysis): 0.0022 µg/l Exposure time: 28 d
Toxicity to microorganisms	:	EC50 (activated sludge): > 100 mg/l Exposure time: 3 h

#### **propane-1,2-diol:**

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	:	(Ceriodaphnia dubia (water flea)): 18,340 mg/l Exposure time: 48 h Test Type: static test
Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): 19,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Ceriodaphnia dubia (Water flea)): 13,020 mg/l Exposure time: 7 d Test Type: semi-static test

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### n-hexane:

Toxicity to fish : LC50 (Carassius auratus (goldfish)): 4 mg/l  
Exposure time: 24 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.1 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : IC50 (green algae): 1,079 mg/l  
Exposure time: 96 h

### Persistence and degradability

#### Components:

#### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 96.5 d  
Remarks: Product is not persistent.

### propane-1,2-diol:

Biodegradability : Result: Readily biodegradable.

### Bioaccumulative potential

#### Components:

#### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Bioaccumulation : Bioconcentration factor (BCF): 69  
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 4.4

### Mobility in soil

#### Components:

#### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Distribution among environmental compartments : Remarks: immobile

Stability in soil : Dissipation time: 2.1 d  
Percentage dissipation: 50 % (DT50)  
Remarks: Product is not persistent.

### Other adverse effects

#### Components:

#### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Results of PBT and vPvB assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).  
Substance is not very persistent and very bioaccumulative (vPvB).

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### methanol:

Results of PBT and vPvB assessment : Substance is not persistent, bioaccumulative, and toxic (PBT). Substance is not very persistent and very bioaccumulative (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.  
This product will not be classified as a RCRA characteristic hazardous waste when discarded.

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 2902  
Proper shipping name : PESTICIDE, LIQUID, TOXIC, N.O.S. (ABAMECTIN)  
Class : 6.1  
Packing group : II  
Labels : 6.1  
Environmentally hazardous : no

#### IATA-DGR

UN/ID No. : UN 2902  
Proper shipping name : Pesticide, liquid, toxic, n.o.s. (ABAMECTIN)  
Class : 6.1  
Packing group : II  
Labels : Toxic  
Packing instruction (cargo aircraft) : 662  
Packing instruction (passenger aircraft) : 654

#### IMDG-Code

UN number : UN 2902  
Proper shipping name : PESTICIDE, LIQUID, TOXIC, N.O.S. (ABAMECTIN)  
Class : 6.1  
Packing group : II



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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

#### 49 CFR

UN/ID/NA number	:	UN 2902
Proper shipping name	:	Pesticides, liquid, toxic, n.o.s. (ABAMECTIN)
Class	:	6.1
Packing group	:	II
Labels	:	POISON
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:

Danger

Fatal if inhaled.

Do not breathe vapor.

May be fatal if swallowed.

Harmful if absorbed through skin.

Causes moderate eye irritation.

Avoid contact with skin, eyes 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.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

<b>SARA 311/312 Hazards</b>	:	Acute toxicity (any route of exposure) Reproductive toxicity Specific target organ toxicity (single or repeated exposure)
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<b>SARA 313</b>	:	The following components are subject to reporting levels established by SARA Title III, Section 313:
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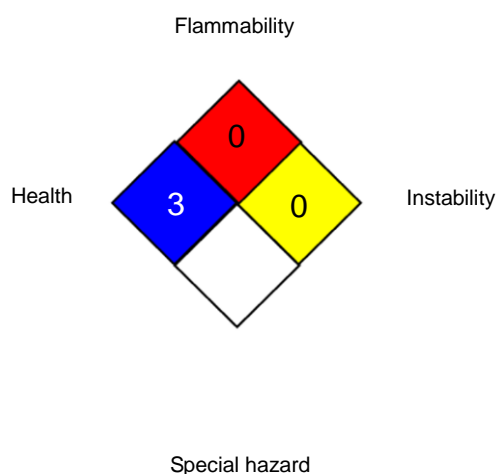
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abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	71751-41-2	>= 30 - < 50 %
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## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



#### HMIS® IV:

HEALTH	*	3
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)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
Syngenta	:	Syngenta Occupational Exposure Limits
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure 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 P0 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA Z-1 / TWA	:	8-hour time weighted average
Syngenta / TWA	:	Time weighted average
US WEEL / TWA	:	8-hr TWA

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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; 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

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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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