

ABAMECTIN + BIFENTHRIN 50/250 G/L SC (W/ **NIPACIDE AS 40)**

Version Revision Date: SDS Number: Date of last issue: -

1.0 2021/05/03 50002348 Date of first issue: 2021/05/03

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE **COMPANY/UNDERTAKING**

Product name ABAMECTIN + BIFENTHRIN 50/250 G/L SC (W/ NIPACIDE AS 40)

Other means of identification STARION EXTRA

TALSTAR EXTRA

Manufacturer or supplier's details

Company : FMC Corporation

Address 2929 WALNUT ST

PHILADELPHIA PA 19104

Número de teléfono en caso de emergencia:

Argentina: 54-1159839431 (CHEMTREC); All other countries: +1 651 / 632-6793 (Collect)

Número de Emegencia Médica:

FMC (General) - (011) 5984-3700; Hospital Nacional Prof. Alejandro Posadas, Centro Nacional de Intoxicaciones. (Toxicologica) - 0800- 333 -0160 / (011) 4658-7777 / (011) 4654-6648; Hospital de Niños Ricardo Gutierrez, Unidad de Toxicologia. (Toxicológica) - 0800-444-8694 / (011) 4962-6666 / (011) 4962-2247; Hospital General de Agudos J. A. Fernández "Unidad de Toxi-cologia. (Toxicológica) - (011) 4808-2655 / (011) 4808-2606; TAS ,Toxicología , Asesoramiento y Servicios. (Toxicológica) -0800-888-8694 / (0341) 4242727; Bomberos (General) - 100; Policia (General) - 101 - 911; Defensa Civil

(General) - 103; Emergencias médicas (General) - 107

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) Category 3

Acute toxicity (Inhalation) Category 4

Acute toxicity (Dermal) Category 5

Reproductive toxicity Category 2

Specific target organ toxicity - :

single exposure

Category 1 (Central nervous system)

Specific target organ toxicity - :

repeated exposure

Category 1 (Nervous system)

Specific target organ toxicity - :

repeated exposure (Oral)

Category 2 (Kidney)

Short-term (acute) aquatic

hazard

Category 2

Long-term (chronic) aquatic

hazard

Category 1



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GHS label elements

Hazard pictograms :







Signal Word : Danger

Hazard Statements : H301 Toxic if swallowed.

H313 May be harmful in contact with skin.

H332 Harmful if inhaled.

H361 Suspected of damaging fertility or the unborn child. H370 Causes damage to organs (Central nervous system). H372 Causes damage to organs (Nervous system) through

prolonged or repeated exposure.

H373 May cause damage to organs (Kidney) through pro-

longed or repeated exposure if swallowed.

H401 Toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

and understood.

P260 Do not breathe 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.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a

POISON CENTER/ doctor. Rinse mouth.

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 + P311 IF exposed or concerned: Call a POISON

CENTER/ doctor. P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

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

Other hazards which do not result in classification

None known.



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Concentration (% w/w)
bifenthrin (ISO)	82657-04-3	>= 20 -< 25
ethane-1,2-diol	107-21-1	>= 5 -< 10
abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	71751-41-2	>= 2,5 -< 5
Oxirane, methyl-, polymer with oxirane, monobutyl ether	9038-95-3	>= 1 -< 5
1,2-benzisothiazol-3(2H)-one	2634-33-5	>= 0,025 -< 0,1
octamethylcyclotetrasiloxane	556-67-2	>= 0,025 -< 0,1

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attend-

ance.

Symptoms of poisoning may appear several hours later.

Do not leave the victim unattended.

If inhaled : Consult a physician after significant exposure.

If unconscious, place in recovery position and seek medical

advice.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Induce vomiting immediately and call a physician.

Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Most important symptoms

and effects, both acute and

delayed

Toxic if swallowed.

May be harmful in contact with skin.

Harmful if inhaled.

Suspected of damaging fertility or the unborn child.

Causes damage to organs.

Causes damage to organs through prolonged or repeated

exposure.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES



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Unsuitable extinguishing

media

: Do not spread spilled material with high-pressure water

streams.

Specific hazards during fire

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod-

ucts

Carbon oxides

Halogenated compounds

Specific extinguishing meth-

ods

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment :

for fire-fighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :

tive equipment and emer-

gency procedures

Use personal protective equipment.

Ensure adequate ventilation.

Accidental Release

Measures

Pick up and arrange disposal without creating dust.

For disposal considerations see section 13.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for

containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapors/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.



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Conditions for safe storage : Prevent unauthorized access.

Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parameters / Permissible	Basis	
		exposure)	concentration		
ethane-1,2-diol	107-21-1	CMP-C (aer-	100 mg/m3	AR OEL	
		osol)			
	Further information: Only aerosol, A4 - Not classifiable as a hu-				
	man carcinogen, Irritation				
		TWA (Vapor)	25 ppm	ACGIH	
		STEL	50 ppm	ACGIH	
		(Vapor)			
		STEL (Inhal-	10 mg/m3	ACGIH	
		able fraction,			
		Aerosol only)			

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an

approved filter.

Hand protection

Material : Protective gloves

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Protective measures : Plan first aid action before beginning work with this product.

Hygiene measures : Avoid contact with skin, eyes and clothing.

When using do not eat or drink. When using do not smoke.



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Wash hands before breaks and immediately after handling

the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : suspension

Color : white

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reac-

tions

: No decomposition if stored and applied as directed.

Conditions to avoid : Avoid dust formation.

Incompatible materials : Strong acids and strong bases

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Toxic if swallowed.

May be harmful in contact with skin.

Harmful if inhaled.

Product:

Acute oral toxicity : LD50 (Rat): > 200 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1,714 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

Components:

bifenthrin (ISO):

Acute oral toxicity : LD50 (Rat): 53,4 mg/kg

Acute inhalation toxicity : LC50 (Rat): 1,01 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403



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Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

ethane-1,2-diol:

Acute inhalation toxicity : LC0 (Rat, male and female): > 2,5 mg/l

Exposure time: 6 h

Test atmosphere: dust/mist Remarks: no mortality

Acute dermal toxicity : LD50 (Mouse, male and female): > 3.500 mg/kg

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

Acute oral toxicity : LD50 (Rat): 340 mg/kg

Method: OECD Test Guideline 425

Acute inhalation toxicity : LC50 (Rat, female): 0,074 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

LC50 (Rat, male): 0,052 - 0,54 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 402

Oxirane, methyl-, polymer with oxirane, monobutyl ether:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): 1 - < 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

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

Acute oral toxicity : LD50 (Rat, male and female): 490 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

octamethylcyclotetrasiloxane:

Acute oral toxicity : LD50 (Rat, male): > 4.800 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): 36 mg/l

Exposure time: 4 h
Test atmosphere: vapor



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Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat, male and female): > 2.500 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation

Not classified based on available information.

Product:

Result : slight irritation

Components:

bifenthrin (ISO):

Species : Rabbit

Result : No skin irritation

ethane-1,2-diol:

Species : Rabbit

Result : No skin irritation

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

Method : OECD Test Guideline 404

Result : slight irritation

Oxirane, methyl-, polymer with oxirane, monobutyl ether:

Result : No skin irritation

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

Species : Rabbit Exposure time : 72 h

Method : OECD Test Guideline 404

Result : No skin irritation

octamethylcyclotetrasiloxane:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Result : slight irritation



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Components:

bifenthrin (ISO):

Result : No eye irritation

ethane-1,2-diol:

Species : Rabbit

Result : No eye irritation

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

Result : slight irritation

Method : OECD Test Guideline 405

Oxirane, methyl-, polymer with oxirane, monobutyl ether:

Result : No eye irritation

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

Species : Bovine cornea Result : No eye irritation

Method : OECD Test Guideline 437

Species : Rabbit

Result : Irreversible effects on the eye

Method : EPA OPP 81-4

octamethylcyclotetrasiloxane:

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Result : Not a skin sensitizer.

Components:

bifenthrin (ISO):

Result : May cause sensitization by skin contact.

ethane-1,2-diol:

Test Type : Maximization Test



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Species : Guinea pig

Result : Does not cause skin sensitization.

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

Method : OECD Test Guideline 406
Result : Not a skin sensitizer.

Oxirane, methyl-, polymer with oxirane, monobutyl ether:

Remarks : No data available

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

Test Type : Maximization Test

Species : Guinea pig

Method : OECD Test Guideline 406

Result : May cause sensitization by skin contact.

Guinea pig FIFRA 81.06

May cause sensitization by skin contact.

octamethylcyclotetrasiloxane:

Test Type : Maximization Test

Species : Guinea pig

Method : OECD Test Guideline 406

Result : Does not cause skin sensitization.

Germ cell mutagenicity

Not classified based on available information.

Components:

bifenthrin (ISO):

Genotoxicity in vitro : Test system: Chinese hamster ovary cells

Result: negative

ethane-1,2-diol:

Genotoxicity in vitro : Test Type: reverse mutation assay

Method: OPPTS 870.5100

Result: negative

Genotoxicity in vivo : Test Type: dominant lethal test

Species: Rat

Application Route: Oral Result: negative

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

Germ cell mutagenicity -

Assessment

No genotoxic potential



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Oxirane, methyl-, polymer with oxirane, monobutyl ether:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

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

Genotoxicity in vitro : Test Type: gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: Ames test

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

Result: positive

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay

Species: Rat (male)
Cell type: Liver cells
Application Route: Ingestion

Exposure time: 4 h

Method: OECD Test Guideline 486

Result: negative

Test Type: Micronucleus test

Species: Mouse Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

Germ cell mutagenicity -

Assessment

Weight of evidence does not support classification as a germ

cell mutagen.

octamethylcyclotetrasiloxane:

Genotoxicity in vitro : Test Type: reverse mutation assay

Method: OECD Test Guideline 471

Result: negative

Genotoxicity in vivo : Test Type: dominant lethal test

Species: Rat

Application Route: Oral Result: negative

Carcinogenicity

Not classified based on available information.



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Components:

bifenthrin (ISO):

Carcinogenicity - Assess- : Weight of evidence does not support classification as a car-

ment cinogen

ethane-1,2-diol:

Species : Mouse Application Route : Oral

Exposure time : 24 month(s)
Result : negative

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

Carcinogenicity - Assess- : Weight of evidence does not support classification as a car-

ment cinogen

octamethylcyclotetrasiloxane:

Species : Rat
Application Route : Inhalation
Exposure time : 24 month(s)

Method : OECD Test Guideline 453

Result : positive

Remarks : No human information is available.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Components:

bifenthrin (ISO):

Effects on fertility : Method: Study for effects on embryo-fetal development

Result: No effects on fertility and early embryonic develop-

ment were detected.

Effects on fetal development : Method: Study for effects on embryo-fetal development

Result: No teratogenic effects.

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

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

Reproductive toxicity - As-

sessment

Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

Oxirane, methyl-, polymer with oxirane, monobutyl ether:

Effects on fertility : Remarks: No data available

Effects on fetal development : Remarks: No data available



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

Effects on fertility : Species: Rat, male

Application Route: Ingestion

General Toxicity Parent: NOAEL: 18,5 mg/kg body weight General Toxicity F1: NOAEL: 48 mg/kg body weight

Fertility: NOAEL: 112 mg/kg wet weight

Symptoms: No effects on reproduction parameters.

Method: OPPTS 870.3800

Result: negative

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

octamethylcyclotetrasiloxane:

Effects on fertility : Test Type: Two-generation study

Species: Rat

Application Route: Inhalation

Result: positive

Effects on fetal development : Test Type: Embryo-fetal development

Species: Rat

Application Route: Inhalation Method: OECD Test Guideline 414

Result: negative

Reproductive toxicity - As-

sessment

Some evidence of adverse effects on sexual function and

fertility, and/or on development, based on animal experiments.

STOT-single exposure

Causes damage to organs (Central nervous system).

Components:

bifenthrin (ISO):

Target Organs : Central nervous system

Assessment : The substance or mixture is classified as specific target organ

toxicant, single exposure, category 1.

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

Remarks : No significant adverse effects were reported

STOT-repeated exposure

Causes damage to organs (Nervous system) through prolonged or repeated exposure. May cause damage to organs (Kidney) through prolonged or repeated exposure if swallowed.

Components:

bifenthrin (ISO):

Target Organs : Nervous system

Assessment : The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 2.



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ethane-1,2-diol:

Routes of exposure Oral **Target Organs** Kidney

Assessment The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 2.

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.

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

Assessment The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

bifenthrin (ISO):

Species Rat

LOAEL 7 - 9 mg/kg

Application Route Oral Exposure time 90 d

ethane-1,2-diol:

Species Rat **NOAEL** 150 mg/kg **Application Route** Oral

Exposure time 12 months

Species

NOAEL > 2.200 - < 4.400 mg/kg

Application Route Dermal Exposure time 4 weeks

Method **OECD Test Guideline 410**

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

Species Dog

0,5 mg/kg Oral

Application Route Exposure time 18 weeks

Method **OECD Test Guideline 409**

Species Rat

0,0027 mg/l

Application Route Inhalation Exposure time 30 d



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Oxirane, methyl-, polymer with oxirane, monobutyl ether:

Remarks : No data available

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

Species : Rat, male and female

NOAEL : 15 mg/kg Application Route : Ingestion Exposure time : 28 d

Method : OECD Test Guideline 407

Symptoms : Irritation

Species : Rat, male and female

NOAEL : 69 mg/kg Application Route : Ingestion Exposure time : 90 d

Symptoms : Irritation, Reduced body weight

octamethylcyclotetrasiloxane:

Species : Rabbit

NOAEL : 1.000 mg/kg

Application Route : Dermal

Exposure time : 3 weeks

Method : OECD Test Guideline 410

Aspiration toxicity

Not classified based on available information.

Components:

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

No aspiration toxicity classification

Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1,4 mg/l

Exposure time: 96 h

Toxicity to terrestrial organ-

LD50 (Apis mellifera (bees)): > 0,00812 µg/bee

isms

Exposure time: 48 d Remarks: Contact

LD50 (Coturnix japonica (Japanese quail)): > 2.825 mg/kg



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Components:

bifenthrin (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): .1

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Crustaceans): .11 Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (algae): 0,822 mg/l Exposure time: 72 h

M-Factor (Acute aquatic tox- : 1

icity)

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): .12

Exposure time: 21 d

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Crustaceans): 0.0013

Exposure time: 21 d

M-Factor (Chronic aquatic

toxicity)

: 1

Toxicity to soil dwelling or-

ganisms

(Eisenia fetida (earthworms)): > 18,9 mg/kg

Exposure time: 14 d

Toxicity to terrestrial organ-

isms

LD50 (Colinus virginianus (Bobwhite quail)): 1.800 mg/kg

LD50 (Apis mellifera (bees)): 0.015 µg/Bee

LD50 (Apis mellifera (bees)): 0.1 µg/Bee

ethane-1,2-diol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 72.860 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

IC50 (Pseudokirchneriella subcapitata (green algae)): 10.940

mg/l

Exposure time: 96 h

Toxicity to fish (Chronic tox-

icity)

(Menidia peninsulae (tidewater silverside)): 1.500 mg/l

Exposure time: 28 d

Toxicity to daphnia and other : (Daphnia magna (Water flea)): 33.911 mg/l



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aquatic invertebrates (Chron-

ic toxicity)

Exposure time: 21 d

Toxicity to microorganisms : (activated sludge): > 1.995 mg/l

Exposure time: 30 min Method: ISO 8192

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

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0,034 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1.1

Exposure time: 48 h

Toxicity to algae/aquatic

plants

: EC50 (Scenedesmus capricornutum (fresh water algae)): 70

mg/l

Exposure time: 72 h

M-Factor (Acute aquatic tox-

icitv)

: 10

M-Factor (Chronic aquatic

toxicity)

10

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): 16 mg/kg

Exposure time: 14 d

Toxicity to terrestrial organ-

isms

LD50 (Apis mellifera (bees)): 0,00083 µg/bee

Exposure time: 48 h

LD50 (Coturnix japonica (Japanese quail)): > 2.000 mg/kg

Oxirane, methyl-, polymer with oxirane, monobutyl ether:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l

Exposure time: 96 h

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

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): 16,7

mg/l

Exposure time: 96 h Test Type: static test

LC50 (Oncorhynchus mykiss (rainbow trout)): 2,15 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2,9 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202



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Toxicity to algae/aquatic

plants

: EC50 (Pseudokirchneriella subcapitata (green algae)): 0,070

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,04

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

M-Factor (Acute aquatic tox-

icity)

10

Toxicity to microorganisms : EC50 (activated sludge): 24 mg/l

Exposure time: 3 h

Test Type: Respiration inhibition Method: OECD Test Guideline 209

EC50 (activated sludge): 12,8 mg/l

Exposure time: 3 h

Test Type: Respiration inhibition Method: OECD Test Guideline 209

octamethylcyclotetrasiloxane:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,022 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 0,015 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC10 (Pseudokirchneriella subcapitata (green algae)): 0,022

mg/

Exposure time: 96 h

EC50 (Pseudokirchneriella subcapitata (green algae)): >

0,022 mg/l

Exposure time: 96 h

M-Factor (Acute aquatic tox-

icity)

10

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): > 0,0044 mg/l

Exposure time: 93 d

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): > 0,015 mg/l

Exposure time: 21 d

M-Factor (Chronic aquatic

toxicity)

10

Toxicity to microorganisms : EC50 (activated sludge): > 10.000 mg/l

Exposure time: 3 h



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Method: ISO 8192

Persistence and degradability

Components:

bifenthrin (ISO):

Biodegradability : Result: Not readily biodegradable.

ethane-1,2-diol:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 90 - 100 %

Exposure time: 10 d

Method: OECD Test Guideline 301A

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

Biodegradability : Result: Not readily biodegradable.

Remarks: It undergoes degradation in the environment and in

waste water treatment plants.

Oxirane, methyl-, polymer with oxirane, monobutyl ether:

Biodegradability : Result: Readily biodegradable.

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

Biodegradability : Result: rapidly biodegradable

Method: OECD Test Guideline 301C

octamethylcyclotetrasiloxane:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 3,7 % Exposure time: 29 d

Method: OECD Test Guideline 310

Bioaccumulative potential

Components:

ethane-1,2-diol:

Partition coefficient: n-

: log Pow: -1,36

octanol/water

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

Bioaccumulation : Species: Danio rerio (zebra fish)

Bioconcentration factor (BCF): 54

Remarks: See section 9 for octanol-water partition coefficient.

Bioaccumulation is unlikely.

Partition coefficient: n- : log Pow: 5,5



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octanol/water

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

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)

Bioconcentration factor (BCF): 6,62

Exposure time: 56 d

Method: OECD Test Guideline 305

Remarks: This substance is not considered to be persistent,

bioaccumulating and toxic (PBT).

Partition coefficient: n-

octanol/water

log Pow: 0,7 (20 °C)

pH: 7

log Pow: 0,99 (20 °C)

pH: 5

octamethylcyclotetrasiloxane:

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): 12.400

Partition coefficient: n-

octanol/water

log Pow: 6,49

Mobility in soil

Components:

bifenthrin (ISO):

Distribution among environ: :

mental compartments

Remarks: immobile

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

Distribution among environ-

mental compartments

: Remarks: Mobile in soils

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

Distribution among environ-

mental compartments

Koc: 9,33, log Koc: 0,97

Method: OECD Test Guideline 121

Other adverse effects

Product:

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.



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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 2810

Proper shipping name : TOXIC LIQUID, ORGANIC, N.O.S.

(Abamectin, Bifenthrin)

Class : 6.1 Packing group : III Labels : 6.1

IATA-DGR

UN/ID No. : UN 2810

Proper shipping name : Toxic liquid, organic, n.o.s.

(Abamectin, Bifenthrin)

Class : 6.1
Packing group : III
Labels : Toxic
Packing instruction (cargo : 663

aircraft)

Packing instruction (passen: 655

ger aircraft)

IMDG-Code

UN number : UN 2810

Proper shipping name : TOXIC LIQUID, ORGANIC, N.O.S.

(Abamectin, Bifenthrin)

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.

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



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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mix-

Argentina. Carcinogenic Substances and Agents Reg- : Not applicable

istry.

Control of precursors and essential chemicals for the

preparation of drugs.

sodium hydroxide

sulphuric acid

International Regulations

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

TCSI : On the inventory, or in compliance with the inventory

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

AICS : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

2-METHYLBIPHENYL-3-YLMETHYL (Z)-(1RS,3RS)-3-(2-

CHLORO-3,3,3-TRIFLUOROPROP-1-ENYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE

Sulfurous acid, monosodium salt, reaction products with cresol-formaldehydenonylphenol polymer (average MW 300-600) abamectin (combination of avermectin B1a and avermectin

B1b) (ISO)

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)



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AR OEL : Argentina. Occupational Exposure Limits

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit

AR OEL / CMP-C : Ceiling value

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals: ANTT - National Agency for Transport by Land of Brazil: ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization: IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS -Workplace Hazardous Materials Information System

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