according to the OSHA Hazard Communication Standard



Steward® eVo insect control

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SECTION 1. IDENTIFICATION

Product identifier

Product name Steward® eVo insect control

Other means of identification

Product code 50002925

Recommended use of the chemical and restrictions on use Recommended use Can be used as insecticide only.

Restrictions on use Use as recommended by the label.

Details of the supplier of the safety data sheet

Manufacturer FMC Corporation

2929 WALNUT ST

PHILADELPHIA PA 19104

USA

(215) 299-6000 SDS-Info@fmc.com

FMC Corporation **Supplier Address**

2929 Walnut Street Philadelphia PA 19104

USA

Emergency telephone

For leak, fire, spill or accident emergencies, call:

1 800 / 424-9300 (CHEMTREC - U.S.A.) 1 703 / 741-5970 (CHEMTREC - International) 1 703 / 527-3887 (CHEMTREC - Alternate)

Medical emergency:

U.S.A. & Canada: +1 800 / 331-3148

All other countries: +1 651 / 632-6793 (Collect)

SECTION 2. HAZARDS IDENTIFICATION

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

Specific target organ toxicity : Category 2 (Central nervous system)

- single exposure

Specific target organ toxicity : Category 1 (Blood, Nervous system)

- repeated exposure

according to the OSHA Hazard Communication Standard



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GHS label elements

Hazard pictograms :

Signal Word : DANGER

Hazard Statements : H371 May cause damage to organs (Central nervous system).

H372 Causes damage to organs (Blood, Nervous system)

through prolonged or repeated exposure.

Precautionary Statements : Prevention:

P260 Do not breathe mist or vapors.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Response:

P308 + P311 IF exposed or concerned: Call a POISON

CENTER/ doctor.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Other hazards

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
indoxacarb (ISO)	173584-44-6	27.03
propane-1,2-diol	57-55-6	>= 5 - < 10
2,4,6-tris(1-	90093-37-1	>= 1 - < 5
Phenylethyl)polyoxyethylenated		
phosphates		
sodium decyl sulphate	142-87-0	>= 1 - < 5

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

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If inhaled : Move to fresh air.

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambu-

lance.

In case of skin contact : Take off all contaminated clothing immediately.

Wash contaminated clothing before re-use.

Wash off immediately with plenty of water for at least 15

minutes

Get medical attention immediately if irritation develops and

persists.

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 : Do not induce vomiting without medical advice.

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.

Most important symptoms and effects, both acute and

delayed

Exposure may result in loss of coordination and tremors. Acute effects on nervous system: drowsiness, tremors, paral-

ysis. Chronic effects include cyanosis

May cause damage to organs.

Causes damage to organs through prolonged or repeated

exposure.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

Avoid inhalation, ingestion and contact with skin and eyes. If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

Notes to physician : Treat symptomatically.

Gastric lavage and/or administration of activated charcoal can be considered. After decontamination, treatment is primarily supportive and symptomatic. Consider possibility of methemoglobinemia and treat with methylene blue if required. Indoxacarb acts by blocking sodium channels in the nervous system. Secondarily, it has oxidant effects on red blood cells

causing methemoglobinemia.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Dry chemical, CO2, water spray or regular foam.

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Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing

media

: High volume water jet

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

Fire may produce irritating, corrosive and/or toxic gases.

Chlorinated compounds Fluorinated compounds Nitrogen oxides (NOx) Carbon oxides

Hydrogen cyanide Hydrogen chloride Hydrogen fluoride

Further information : 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

Firefighters should wear protective clothing and self-contained

breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec: :

tive equipment and emer-

gency procedures

Use personal protective equipment.

Ensure adequate ventilation.

Do not touch or walk through the spilled material.

If it can be safely done, stop the leak.

Immediately evacuate personnel to safe areas. Never return spills in original containers for re-use.

Mark the contaminated area with signs and prevent access to

unauthorized personnel.

Only qualified personnel equipped with suitable protective

equipment may intervene.

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

according to the OSHA Hazard Communication Standard



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Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapors/dust.

For personal protection see section 8.

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

plication area.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : 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 exposure)	Control parameters / Permissible concentration	Basis
		cxposurc)	CONCENTIATION	
propane-1,2-diol	57-55-6	TWA	10 mg/m3	US WEEL

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

Hand protection

Material : Wear chemical resistant gloves, such as barrier laminate,

butyl rubber or nitrile rubber.

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 con-

centration of the dangerous substance at the work place.

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

Always have on hand a first-aid kit, together with proper in-

structions.

Ensure that eye flushing systems and safety showers are

located close to the working place.

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Wear suitable protective equipment.

In the context of professional plant protection use as recommended, the end user must refer to the label and the instruc-

tions for use.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Form : suspension

Color : white

Odor : characteristic

Odor Threshold : No data available

pH : 6.78 (68 °F / 20 °C)

Concentration: 1 %

Method: OCSPP 830.7000

GLP: yes

(1% solution in water)

Melting point/freezing point : No data available

Initial boiling point and boiling :

range

No data available

Flash point : $> 203 \, ^{\circ}\text{F} / 95 \, ^{\circ}\text{C}$

GLP: yes

Evaporation rate : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

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Relative vapor density : No data available

Relative density : No data available

Density : 1.1188 g/cm3

Method: OPPTS 830.7300

GLP: yes

Bulk density : No data available

Solubility(ies)

Water solubility : dispersible

Solubility in other solvents : 160 g/lActive ingredient

Solvent: ethyl acetate

1.72 g/IActive ingredient

Solvent: Heptane

0.2 g/l (77 °F / 25 °C) Active ingredient Solvent: water

Partition coefficient: n-

octanol/water

log Pow: 4.65 (77 °F / 25 °C)

Active ingredient

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : 500 mPa.s (68 °F / 20 °C)

Method: OPPTS 830.7100

GLP: yes

265.5 mPa.s (104 °F / 40 °C) Method: OPPTS 830.7100

GLP: yes

Viscosity, kinematic : No data available

Explosive properties : GLP: yes

Not explosive

Oxidizing properties : Non-oxidizing

GLP: yes

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

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

according to the OSHA Hazard Communication Standard



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Possibility of hazardous reac- :

tions

No decomposition if stored and applied as directed.

Conditions to avoid : Avoid extreme temperatures.

Avoid formation of aerosol.

Incompatible materials : Avoid strong acids, bases, and oxidizers.

Hazardous decomposition

products

: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

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

Product:

Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg

GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 5.16 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

GLP: yes

Acute dermal toxicity : LD50 Dermal (Rat): > 5,000 mg/kg

GLP: yes

Components:

indoxacarb (ISO):

Acute oral toxicity : LD50 (Rat, male and female): 281 - 291 mg/kg

Method: OECD Test Guideline 420

Symptoms: ataxia, Tremors, Diarrhea, clonic convulsions

GLP: yes

LD50 (Rat, female): 179 mg/kg Method: OECD Test Guideline 401 Target Organs: Nervous system

Symptoms: hypoactivity, Tremors, ataxia, Fatality

GLP: yes

Acute inhalation toxicity : LC50 (Rat, female): 4.2 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403 Symptoms: nasal discharge, lethargy

GLP: yes

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 402

according to the OSHA Hazard Communication Standard



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GLP: yes

Assessment: The substance or mixture has no acute dermal

toxicity

propane-1,2-diol:

Acute oral toxicity : LD50 (Rat, male and female): 22,000 mg/kg

Acute inhalation toxicity : LC0 (Rabbit): 31.7 mg/l

Exposure time: 2 h
Test atmosphere: vapor
Remarks: no mortality

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

Assessment: The substance or mixture has no acute dermal

toxicity

2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

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

Assessment: The substance or mixture has no acute dermal

toxicity

sodium decyl sulphate:

Acute oral toxicity : LD50 (Rat, male and female): 1,200 mg/kg

Method: OECD Test Guideline 401

Symptoms: Fatality

Remarks: Based on data from similar materials

LD50 (Rat, female): 977 mg/kg Method: OECD Test Guideline 401

Symptoms: Fatality

Remarks: Based on data from similar materials

LD50 (Rat, male): 1,427 mg/kg Method: OECD Test Guideline 401

Symptoms: Fatality

Remarks: Based on data from similar materials

Acute dermal toxicity : LD0 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

Remarks: Based on data from similar materials

no mortality

Skin corrosion/irritation

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

Product:

Assessment : Not classified as irritant

Result : No skin irritation

GLP : yes

according to the OSHA Hazard Communication Standard



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Components:

indoxacarb (ISO):

Species : Rabbit

Assessment : Not classified as irritant
Method : OECD Test Guideline 404

Result : slight irritation

GLP : yes

propane-1,2-diol:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

Species : Rabbit

Result : No skin irritation

sodium decyl sulphate:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Skin irritation

Remarks : Based on data from similar materials

Serious eye damage/eye irritation

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

Product:

Result : No eye irritation

Assessment : Not classified as irritant

GLP : yes

Components:

indoxacarb (ISO):

Species : Rabbit

Result : slight irritation

Assessment : Not classified as irritant
Method : OECD Test Guideline 405

GLP : yes

Remarks : Product dust may be irritating to eyes, skin and respiratory

system.

propane-1,2-diol:

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

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2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

Species : Rabbit

Result : Irritation to eyes, reversing within 21 days

sodium decyl sulphate:

Species : Rabbit

Result : Irreversible effects on the eye Method : OECD Test Guideline 405

Remarks : Based on data from similar materials

Species : Rabbit

Result : No eye irritation

Remarks : Based on data from similar materials

Respiratory or skin sensitization

Skin sensitization

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

Respiratory sensitization

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

Product:

Assessment : Not a skin sensitizer.

Result : Does not cause skin sensitization.

GLP : yes

Components:

indoxacarb (ISO):

Test Type : Local lymph node assay (LLNA)

Routes of exposure : Skin contact Species : Mouse

Assessment : The product is a skin sensitizer, sub-category 1B.

Method : OECD Test Guideline 429

Result : May cause sensitization by skin contact.

GLP : yes

Test Type : Maximization Test

Species : Guinea pig

Assessment : May cause sensitization by skin contact.

Method : US EPA Test Guideline OPPTS 870.2600

Result : May cause sensitization by skin contact.

GLP : yes

propane-1,2-diol:

Test Type : Maximization Test Species : Guinea pig Result : negative

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2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

Result : Does not cause skin sensitization.

sodium decyl sulphate:

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Result : Does not cause skin sensitization.
Remarks : Based on data from similar materials

Germ cell mutagenicity

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

Components:

indoxacarb (ISO):

Genotoxicity in vitro : Test Type: reverse mutation assay

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: gene mutation test

Test system: Chinese hamster ovary cells

Method: OECD Test Guideline 476

Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse

Method: OECD Test Guideline 474

Result: negative

Germ cell mutagenicity -

Assessment

Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

propane-1,2-diol:

Genotoxicity in vitro : Test Type: reverse mutation assay

Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Mouse Result: negative

2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

Germ cell mutagenicity -

Assessment

No genotoxic potential.

sodium decyl sulphate:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Result: negative

Remarks: Based on data from similar materials

according to the OSHA Hazard Communication Standard



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Test Type: In vitro mammalian cell gene mutation test

Result: negative

Remarks: Based on data from similar materials

Test Type: reverse mutation assay

Method: Mutagenicity (Salmonella typhimurium - reverse mu-

tation assay) Result: negative

Genotoxicity in vivo : Test Type: dominant lethal test

Species: Mouse (male and female)

Application Route: Oral

Result: negative

Remarks: Based on data from similar materials

Germ cell mutagenicity -

Assessment

Weight of evidence does not support classification as a germ

cell mutagen.

Carcinogenicity

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

Components:

indoxacarb (ISO):

Species : Rat, female

Application Route : Oral Exposure time : 24 m

: 2.13 mg/kg bw/day

Result : negative

Carcinogenicity - Assess-

men

Animal testing did not show any carcinogenic effects.

propane-1,2-diol:

Species : Rat
Application Route : Oral
Exposure time : 2 Years
Result : negative

2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

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

ment cinogen

sodium decyl sulphate:

Species : Rat, male and female

Application Route : Oral Exposure time : 2 Years

Dose : 0, 11, 113, 1125 mg/kg bw NOAEL : 1,125 mg/kg bw/day

Result : negative

Remarks : Based on data from similar materials

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Carcinogenicity - Assess-

ment

Weight of evidence does not support classification as a car-

cinogen

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

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

Components:

indoxacarb (ISO):

Effects on fertility : Test Type: Two-generation study

Species: Rat

Result: Animal testing did not show any effects on fertility.

Effects on fetal development : Species: Rabbit

General Toxicity Maternal: NOEL: 500 mg/kg bw/day Developmental Toxicity: NOEL: 500 mg/kg bw/day

Method: EPA OPP 83-3

Reproductive toxicity - As-

sessment

Animal testing did not show any effects on fertility.

Animal testing did not show any effects on fetal development.

propane-1,2-diol:

Effects on fertility : Test Type: reproductive and developmental toxicity study

Species: Mouse Application Route: Oral

Result: negative

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

Species: Mouse Application Route: Oral

Method: OECD Test Guideline 414

Result: Animal testing did not show any effects on fertility.

Remarks: Based on data from similar materials

2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

Reproductive toxicity - As-

sessment

No toxicity to reproduction

sodium decyl sulphate:

Effects on fertility : Test Type: reproductive and developmental toxicity study

Species: Rat

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Application Route: Oral

Dose: 0, 63, 125, 250, 500 mg/kg

General Toxicity Parent: LOAEL: 500 mg/kg bw/day

Result: negative

Remarks: Based on data from similar materials

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

STOT-single exposure

May cause damage to organs (Central nervous system).

Components:

indoxacarb (ISO):

Target Organs : Central nervous system

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

toxicant, single exposure, category 2.

2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

sodium decyl sulphate:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

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

Components:

indoxacarb (ISO):

Target Organs : Blood, Nervous system

Assessment : Causes damage to organs through prolonged or repeated

exposure.

2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

indoxacarb (ISO):

Species : Rat, female
NOAEL : 1.7 mg/kg
LOAEL : 4.1 mg/kg
Application Route : Oral
Exposure time : 90 d

Method : OECD Test Guideline 408

according to the OSHA Hazard Communication Standard



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GLP : yes Target Organs : Blood

propane-1,2-diol:

Species : Rat, male and female

NOAEL : 1,700 mg/kg

Application Route : Oral Exposure time : 2 Years

Species : Rat, male and female

NOAEL : 1,000 mg/kg
LOAEL : 160 mg/kg
Application Route : Inhalation
Exposure time : 90 Days

sodium decyl sulphate:

Species : Rat, male and female NOAEL : 488 mg/kg bw/day LOAEL : 1016 mg/kg bw/day

Application Route : Oral - feed Exposure time : 91 d

Dose : 62,122,245,488,1016,2081mg/kgb

Target Organs : Liver

Remarks : Based on data from similar materials

Species : Mouse, male and female NOAEL : 400 mg/kg bw/day LOAEL : 500 mg/kg bw/day

Application Route : Dermal

Dose : 0,200,400,500,600mg/kgbw/day

Symptoms : Necrosis

Remarks : Based on data from similar materials

Aspiration toxicity

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

Components:

2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

No aspiration toxicity classification

Further information

Product:

Remarks : No data available

Components:

indoxacarb (ISO):

Remarks : Acute effects on nervous system: drowsiness, tremors, paral-

ysis. Chronic effects include cyanosis

according to the OSHA Hazard Communication Standard



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Remarks : Information presented in this Section conforms to the require-

ments of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection

Agency (EPA), or by state Regulatory Agencies.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

indoxacarb (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.65 mg/l

Exposure time: 96 h

Test Type: flow-through test

Method: OECD Test Guideline 203

GLP: yes

LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.17 mg/l

Exposure time: 96 h

Test Type: flow-through test Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.6 mg/l

Exposure time: 48 h

EC50 (Daphnia magna (Water flea)): > 0.17 mg/l

Exposure time: 48 h

Test Type: flow-through test Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

NOEC (Pseudokirchneriella subcapitata (algae)): 0.0793 mg/l

Exposure time: 72 h

Test Type: Growth inhibition Method: OECD Test Guideline 201

GLP: yes

EbC50 (Lemna gibba (duckweed)): 0.084 mg/l

Exposure time: 7 d

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): 0.15 mg/l

Exposure time: 90 d

Test Type: Early Life-Stage

Method: OECD Test Guideline 210

GLP: yes

NOEC (Pimephales promelas (fathead minnow)): 0.0675 mg/l

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Exposure time: 28 d

Test Type: Early Life-Stage

Method: OECD Test Guideline 210

GLP: yes

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 0.09 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 202

GLP: yes

NOEC (Daphnia magna (Water flea)): 0.0351 mg/l

Exposure time: 21 d

Test Type: Static renewal test Method: OECD Test Guideline 211

GLP: yes

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): > 1,250 mg/kg

Exposure time: 14 d

Method: OECD Test Guideline 207

GLP: yes

Method: OECD Test Guideline 216

Remarks: No significant adverse effect on Nitrogen minerali-

zation.

Method: OECD Test Guideline 217

Remarks: No significant adverse effect on Carbon mineraliza-

tion.

Toxicity to terrestrial organ-

isms

LD50 (Apis mellifera (bees)): 0.232 µg/bee

Exposure time: 48 d

End point: Acute oral toxicity Method: OECD Test Guideline 213

LD50 (Apis mellifera (bees)): 0.068 µg/bee

Exposure time: 48 d

End point: Acute contact toxicity Method: OECD Test Guideline 214

LD50 (Colinus virginianus (Bobwhite quail)): 98 mg/kg

Method: US EPA Test Guideline OPP 71-1

GLP: yes

NOEC (Anas platyrhynchos (Mallard duck)): 720 ppm

Exposure time: 147 d

End point: Reproduction Test Method: OECD Test Guideline 206

GLP: yes

NOEC (Colinus virginianus (Bobwhite quail)): 144 ppm

Exposure time: 147 d

End point: Reproduction Test

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propane-1,2-diol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

(Mysidopsis bahia (opossum shrimp)): 18,800 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 34,100

mg/

Exposure time: 48 h

Method: OECD Test Guideline 201

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 13,020 mg/l Exposure time: 7 d

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 20,000 mg/l

Exposure time: 18 h

2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 3,000 mg/l

Exposure time: 48 h

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 550 mg/l

Exposure time: 24 h

Remarks: Based on data from similar materials

sodium decyl sulphate:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 13 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 470 mg/l

Exposure time: 24 h

Toxicity to algae/aquatic

plants

'

EC50 (Pseudokirchneriella subcapitata (green algae)): 8.64 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox-

icity)

NOEC (Pimephales promelas (fathead minnow)): > 1.357 mg/l

Exposure time: 42 d

Test Type: flow-through test

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 1.4 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

Toxicity to microorganisms : EC50 (activated sludge): 135 mg/l

Exposure time: 3 h

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Test Type: Respiration inhibition

Remarks: Based on data from similar materials

Persistence and degradability

Components:

indoxacarb (ISO):

Biodegradability : Result: Not readily biodegradable.

propane-1,2-diol:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 23.6 % Exposure time: 64 d

Method: OECD Test Guideline 306

2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

Biodegradability : Result: Not readily biodegradable.

sodium decyl sulphate:

Biodegradability : Inoculum: activated sludge

Result: Readily biodegradable.

Biodegradation: 98 % Exposure time: 30 d

Method: OECD Test Guideline 301D

Bioaccumulative potential

Components:

indoxacarb (ISO):

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)

Bioconcentration factor (BCF): 77.3

Exposure time: 21 d

Method: OECD Test Guideline 305

Partition coefficient: n-

octanol/water

log Pow: 4.52 (68 °F / 20 °C)

Method: OECD Test Guideline 107

GLP: yes

propane-1,2-diol:

Partition coefficient: n-

octanol/water

log Pow: -1.07

sodium decyl sulphate:

Partition coefficient: n-

log Pow: 1.72 (77 °F / 25 °C)

octanol/water

pH: 7.94 - 7.95

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Mobility in soil

Components:

indoxacarb (ISO):

Distribution among environmental compartments

Koc: 4483 ml/g, log Koc: 3.65 Remarks: Low mobility in soil.

Kd: 46 - 150

Stability in soil :

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Pro-

tection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

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.

Components:

indoxacarb (ISO):

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.

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

according to the OSHA Hazard Communication Standard



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UNRTDG

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Indoxacarb)

Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(Indoxacarb)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo :

aircraft)

Packing instruction (passen-

964

964

ger aircraft)

Environmentally hazardous : yes

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Indoxacarb)

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 Road

UN/ID/NA number : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(Indoxacarb)

Class : 9
Packing group : III
Labels : CLASS 9
ERG Code : 171

Marine pollutant : yes(Indoxacarb)

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

Remarks : 49CFR: no dangerous good in non-bulk packaging

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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

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

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.

SARA 311/312 Hazards : No SARA Hazards

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.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

propane-1,2-diol 57-55-6 >= 5 - < 10 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

phosphoric acid 7664-38-2 >= 0 - < 0.1 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

phosphoric acid 7664-38-2 >= 0 - < 0.1 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

 water
 7732-18-5

 indoxacarb (ISO)
 173584-44-6

 propane-1,2-diol
 57-55-6

 sodium sulphate
 7757-82-6

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phosphoric acid 7664-38-2

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

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.

AIIC : Not in compliance with the inventory

DSL : This product contains chemical substance(s) exempt from

CEPA DSL Inventory requirements. It is regulated as a pesticide subject to Pest Control Products Act (PCPA) requirements. Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control

product.

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

TECI: Not in compliance with the inventory

TSCA list

No substances are subject to a Significant New Use Rule.

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

FIFRA 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:

CAUTION

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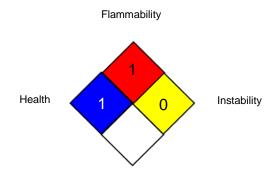
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Causes eye irritation, Avoid contact with skin, eyes and clothing., Avoid breathing dust or spray mist., Harmful if swallowed, Harmful if absorbed through the skin., Harmful if inhaled, Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet., Remove and wash contaminated clothing before reuse., Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals., Very toxic to aquatic life with long lasting effects.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



Special hazard

0 No health threat, **1** Slightly Hazardous, **2** Hazardous, **3** Extreme danger, **4** Deadly

HMIS® IV:

HEALTH	*	3
FLAMMABILITY		1
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

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)

US WEEL / TWA : 8-hr TWA

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;

according to the OSHA Hazard Communication Standard



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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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End of Material Safety Data Sheet