according to the OSHA Hazard Communication Standard



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SECTION 1. IDENTIFICATION

Product identifier

Product name ADASTRIO™ Fungicide

Other means of identification

Product code 50002623

Chemical nature Mixture

Recommended use of the chemical and restrictions on use

Recommended use

Can be used as fungicide only.

Restrictions on useUse as recommended by the label.

Details of the supplier of the safety data sheet

<u>Manufacturer</u> FMC Corporation

2929 WALNUT ST

PHILADELPHIA PA 19104

USA

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

<u>Supplier Address</u> FMC Corporation

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)

Acute toxicity (Inhalation) : Category 4

Eye irritation : Category 2B

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Skin sensitization Category 1

GHS label elements

Hazard pictograms

Signal Word Warning

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

H317 May cause an allergic skin reaction.

H320 Causes eye irritation.

Precautionary Statements Prevention:

> P261 Avoid breathing 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.

P272 Contaminated work clothing must not be allowed out of

the workplace.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water and soap. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention. P337 + P313 If eye irritation persists: Get medical advice/ atten-

P363 Wash contaminated clothing before reuse.

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

Chemical nature Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
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azoxystrobin (ISO)	131860-33-8	15.7
Fluindapyr	1383809-87-7	10.5
Flutriafol	76674-21-0	15.7
propane-1,2-diol	57-55-6	>= 5 - < 10
Poly(oxy-1,2-ethanediyl), .alpha	68186-36-7	>= 1 - < 5
tridecylomegahydroxy-, phos-		
phate, potassium salt		
Sodium alkyl naphthalene sulfonate	68425-94-5	>= 1 - < 5

Actual concentration is withheld as a trade secret

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.

If inhaled : Move to fresh air.

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

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 if irritation develops and persists.

In case of eye contact : Immediately flush eye(s) with plenty of water.

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

Harmful if swallowed or if inhaled. May cause an allergic skin reaction.

Causes serious eye irritation.

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.

SECTION 5. FIRE-FIGHTING MEASURES

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

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire

fighting

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

courses.

Hazardous combustion prod- :

ucts

Thermal decomposition can lead to release of irritating gases

and vapors.

Nitrogen oxides (NOx)

Carbon oxides

Fluorinated compounds

Sulfur oxides

Fluorine compounds

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.

Never return spills in original containers for re-use.

Mark the contaminated area with signs and prevent access to

unauthorized personnel.

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 : 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.

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Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

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.

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
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

Wear face-shield and protective suit for abnormal processing

problems.

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.

Wear suitable protective equipment. When using do not eat or drink. When using do not smoke.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

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Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Color : off-white to white

Odor : No data available

Odor Threshold : No data available

pH : 6.5 - 7.0

Melting point/freezing point : No data available

Initial boiling point and boiling

range

No data available

Flash point : $> 212 \,^{\circ}\text{F} / > 100 \,^{\circ}\text{C}$

Evaporation rate : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower :

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : ca. 1.14 (68 °F / 20 °C)

Density : No data available

Solubility(ies)

Water solubility : dispersible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Decomposition temperature : No data available

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Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : The product is not oxidizing.

The substance or mixture is not classified as oxidizing.

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 extreme temperatures.

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

Hazardous decomposition

products

No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity : LD50 Oral (Rat): 2,000 - 4,000 mg/kg

GLP: yes

Acute inhalation toxicity : LC50 (Rat): 2 - 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

GLP: yes

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

GLP: yes

Components:

azoxystrobin (ISO):

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

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, female): 0.69 mg/l

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Exposure time: 4 h

Test atmosphere: dust/mist

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

Method: OECD Test Guideline 402

Fluindapyr:

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

Method: OECD Test Guideline 423

GLP: yes

Assessment: The substance or mixture has no acute oral tox-

icity

LD50 (Rat, female): 300 - 2,000 mg/kg Method: OECD Test Guideline 423

Symptoms: ataxia, Breathing difficulties, Fatality

GLP: yes

Assessment: The component/mixture is moderately toxic after

single ingestion.

Acute inhalation toxicity : LC50 (Rat): > 5.19 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403 Symptoms: ataxia, Breathing difficulties

GLP: yes

Assessment: The component/mixture is minimally toxic after

short term inhalation. Remarks: no mortality

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

Method: OECD Test Guideline 402

Symptoms: Irritation

GLP: ves

Assessment: The component/mixture is minimally toxic after

single contact with skin.

Flutriafol:

Acute oral toxicity : LD50 (Rat, male): 1,140 mg/kg

LD50 (Rat, female): 1,480 mg/kg

LD50 (Rat, female): 200 - 2,000 mg/kg Method: OECD Test Guideline 423

Target Organs: Liver, Gastrointestinal tract

Symptoms: Fatality

Assessment: The component/mixture is moderately toxic after

single ingestion.

Acute inhalation toxicity : LC50 (Rat): > 5.2 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

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Method: OECD Test Guideline 403

LC50 (Rat, male and female): > 2.13 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

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

Method: OECD Test Guideline 402

GLP: yes

Assessment: The component/mixture is minimally toxic after

single contact with skin. Remarks: no mortality

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

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate, potassium salt:

Acute oral toxicity : Assessment: Toxic effects cannot be excluded

Sodium alkyl naphthalene sulfonate:

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

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

Components:

azoxystrobin (ISO):

Species : Rabbit

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

Remarks : Minimal effects that do not meet the threshold for classifica-

tion.

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

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Fluindapyr:

Species : Not tested on animals
Assessment : Not classified as irritant
Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

Assessment : Not classified as irritant
Method : OECD Test Guideline 439

GLP : yes

Flutriafol:

Species : Rabbit

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

Result : No skin irritation

GLP : yes

propane-1,2-diol:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate, potassium salt:

Result : Skin irritation

Sodium alkyl naphthalene sulfonate:

Remarks : No data available

Serious eye damage/eye irritation

Causes eye irritation.

Product:

Result : Moderate eye irritation
Assessment : Mild eye irritation

GLP : yes

Components:

azoxystrobin (ISO):

Species : Rabbit

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

Remarks : Minimal effects that do not meet the threshold for classifica-

tion.

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

Fluindapyr:

Species : Rabbit

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Result : No eye irritation

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

GLP : yes

Result : not corrosive

Method : Bovine cornea (BCOP)

GLP : yes

Flutriafol:

Species : Rabbit

Result : Slight or no eye irritation
Assessment : Not classified as irritant
Method : OECD Test Guideline 405

GLP : yes

propane-1,2-diol:

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate, potassium salt:

Result : Irreversible effects on the eye

Sodium alkyl naphthalene sulfonate:

Result : Eye irritation

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

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

Product:

Assessment : May cause sensitization by skin contact.
Result : May cause sensitization by skin contact.

Components:

azoxystrobin (ISO):

Species : Guinea pig

Assessment : Not a skin sensitizer.

Method : OECD Test Guideline 406

Result : Does not cause skin sensitization.

Fluindapyr:

Test Type : Local lymph node assay (LLNA)

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Routes of exposure : Skin contact Species : Mouse

Method : OECD Test Guideline 429

Result : May cause sensitization by skin contact.

GLP : yes

Flutriafol:

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Method : OECD Test Guideline 429
Result : Not a skin sensitizer.

Test Type : Buehler Test Routes of exposure : Skin contact Species : Guinea pig

Assessment : Did not cause sensitization on laboratory animals.

Method : OECD Test Guideline 406

propane-1,2-diol:

Test Type : Maximization Test

Species : Guinea pig Result : negative

Germ cell mutagenicity

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

Components:

Fluindapyr:

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

Test system: lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Test Type: gene mutation test Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 490

Result: negative

Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Flutriafol:

Genotoxicity in vivo : Test Type: dominant lethal test

Method: OECD Test Guideline 478

Result: negative

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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

Carcinogenicity

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

Components:

azoxystrobin (ISO):

Method : OECD Test Guideline 451

Result : negative

Remarks : No significant adverse effects were reported

Method : OECD Test Guideline 453

Result : negative

Remarks : No significant adverse effects were reported

Carcinogenicity - Assess-

ment

: Animal testing did not show any carcinogenic effects.

Fluindapyr:

Species : Mouse

Method : OECD Test Guideline 451
Result : Not a carcinogenic hazard

GLP : ves

Remarks : No significant adverse effects were reported

Species : Rat

Method : OECD Test Guideline 453
Result : Not a carcinogenic hazard

GLP : yes

Remarks : No significant adverse effects were reported

Flutriafol:

Species : Mouse Exposure time : 2 Years

NOAEL : 1.2 mg/kg bw/day

Result : negative

Species : Rat Exposure time : 2 Years

NOAEL : 1 mg/kg bw/day

Result : negative

Carcinogenicity - Assess-

ment

: Animal testing did not show any carcinogenic effects.

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propane-1,2-diol:

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

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.

OSHA No 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:

azoxystrobin (ISO):

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

Did not show teratogenic effects in animal experiments.

Fluindapyr:

Effects on fertility Test Type: Two-generation study

General Toxicity Parent: NOAEL: ca. 30 mg/kg bw/day

Method: OECD Test Guideline 416

GLP: yes

Flutriafol:

Reproductive toxicity - As-

sessment

Animal testing did not show any effects on fertility.

Animal testing showed no developmental toxicity.

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

STOT-single exposure

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

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Components:

azoxystrobin (ISO):

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

organ toxicant, single exposure.

Flutriafol:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

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

Components:

azoxystrobin (ISO):

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

organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

azoxystrobin (ISO):

Species : Rat

NOAEL : 21 mg/kg bw/day

Application Route : Oral Exposure time : 90 d

Remarks : No significant adverse effects were reported

Species : Dog

NOAEL : 50 mg/kg bw/day

Application Route : Oral Exposure time : 90 d

Remarks : No significant adverse effects were reported

Species : Dog

NOAEL : 25 mg/kg bw/day

Application Route : Oral Exposure time : 1 yr

Remarks : No significant adverse effects were reported

Fluindapyr:

Species : Rat

NOAEL : 1,000 mg/kg
Application Route : Dermal
Exposure time : 21 d

Number of exposures : 5 d/w for 6 hr

Dose : 0,100,300,1000 mg/kg bw/day
Method : OECD Test Guideline 410

GLP : yes Symptoms : Irritation

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Flutriafol:

Species : Rat

NOAEL : 13.3 mg/kg bw/day

Application Route : Oral - feed Exposure time : 90 d

Symptoms : anemia, Liver effects

Species : Dog

NOAEL : 5 mg/kg bw/day

Application Route : Oral Exposure time : 90 d

Symptoms : blood effects, Liver effects

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

Aspiration toxicity

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

Components:

azoxystrobin (ISO):

The substance does not have properties associated with aspiration hazard potential.

Flutriafol:

The substance does not have properties associated with aspiration hazard potential.

Neurological effects

Components:

Flutriafol:

No neurotoxicity observed in animal studies.

Further information

Product:

Remarks : No data available

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

azoxystrobin (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.47 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.28 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

EC50 (Americamysis bahia (mysid shrimp)): 0.055 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

EC50 (Lemna gibba (duckweed)): 3.2 mg/l

Exposure time: 14 d

EC50 (Navicula pelliculosa (Diatom)): 0.146 mg/l

Exposure time: 72 h

NOEC (Navicula pelliculosa (Diatom)): 0.02 mg/l

Exposure time: 72 h

NOEC (Lemna gibba (duckweed)): 0.8 mg/l

Exposure time: 14 d

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): 0.16 mg/l

Exposure time: 28 d

Method: OECD Test Guideline 204

NOEC (Pimephales promelas (fathead minnow)): 0.147 mg/l

Exposure time: 28 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 0.044 mg/l

Exposure time: 21 d

NOEC (Americamysis bahia (mysid shrimp)): 0.00954 mg/l

Exposure time: 28 d

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): 283 mg/kg

Exposure time: 14 d

Toxicity to terrestrial organ-

isms

LD50 (Anas platyrhynchos (Mallard duck)): > 1,000 mg/kg

LD50 (Colinus virginianus (Bobwhite quail)): > 1,000 mg/kg

LD50 (Colinus virginianus (Bobwhite quail)): > 5,200 ppm

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Remarks: Dietary

LD50 (Apis mellifera (bees)): > 200 µg/bee

Exposure time: 48 h

End point: Acute contact toxicity

LD50 (Apis mellifera (bees)): > 25 µg/bee

Exposure time: 48 h

End point: Acute oral toxicity

Fluindapyr:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.121 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

LC50 (Oryzias latipes (Japanese medaka)): > 1.8 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

LC50 (Danio rerio (zebra fish)): > 2.7 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

LC50 (Cyprinodon variegatus (sheepshead minnow)): 0.43

mg/l

Exposure time: 96 h Test Type: static test Method: OPPTS 850.1075

GLP: yes

LC50 (Cyprinus carpio (Carp)): 0.11 mg/l

Exposure time: 96 h

Test Type: Static renewal test Method: OECD Test Guideline 203

GLP: yes

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.286 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.141 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

according to the OSHA Hazard Communication Standard



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LC50 (Americamysis bahia (mysid shrimp)): 0.33 mg/l

Exposure time: 96 h Test Type: static test Method: OCSPP 850.1035

GLP: yes

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): > 4.83

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

NOEC (Lemna gibba (duckweed)): 2 mg/l

Exposure time: 7 d

Method: OECD Test Guideline 221

GLP: yes

EC50 (Skeletonema costatum (Diatom)): > 2 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Toxicity to fish (Chronic tox-

icity)

NOEC (Pimephales promelas (fathead minnow)): 0.031 mg/l

Exposure time: 32 d

Test Type: Early-life Stage

Method: OECD Test Guideline 210

GLP: yes

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Americamysis bahia (mysid shrimp)): 0.062 mg/l

Exposure time: 28 d

Test Type: flow-through test Method: OPPTS 850.1350

GLP: yes

NOEC (Daphnia magna (Water flea)): 0.12 mg/l

Exposure time: 21 d Test substance: yes

Method: OECD Test Guideline 211

GLP: yes

Remarks: Information refers to the main ingredient.

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg

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 (Colinus virginianus (Bobwhite quail)): > 2,250 mg/kg

according to the OSHA Hazard Communication Standard



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LD50 (Apis mellifera (bees)): > 300 µg/bee

Exposure time: 48 h

Method: OECD Test Guideline 214

GLP: yes

Remarks: Contact

LD50 (Apis mellifera (bees)): > 32.8 µg/bee

Exposure time: 48 h

Method: OECD Test Guideline 213

GLP: yes Remarks: Oral

Flutriafol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 61 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 78 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

IC50 (Selenastrum capricornutum (green algae)): 12 mg/l

Exposure time: 96 h

IC50 (Scenedesmus subspicatus): 1.9 mg/l

Exposure time: 72 h

EbC50 (Lemna gibba (duckweed)): 0.65 mg/l

Exposure time: 7 d

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): 6.2 mg/l

Exposure time: 28 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 0.31 mg/l

Exposure time: 21 d

Toxicity to soil dwelling or-

ganisms

NOEC (Eisenia fetida (earthworms)): 0.01 mg/cm2

Exposure time: 180 d

Toxicity to terrestrial organ-

isms

LD50 (Apis mellifera (bees)): > 200.2 µg/bee

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

GLP: yes

LD50 (Apis mellifera (bees)): > 200.2 µg/bee

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

GLP: yes

according to the OSHA Hazard Communication Standard



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LD50 (Anas platyrhynchos (Mallard duck)): > 5,000 mg/kg

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/I

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

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate, potassium salt:

Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

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

Sodium alkyl naphthalene sulfonate:

Toxicity to fish : LC50 (Zebra fish): > 10 - 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

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

Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

EC10 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

Toxicity to daphnia and other : EC10 (Daphnia magna (Water flea)): > 10 - 100 mg/l

according to the OSHA Hazard Communication Standard



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aquatic invertebrates (Chron-

ic toxicity)

Exposure time: 21 d

Method: OECD Test Guideline 211

Remarks: Based on data from similar materials

Persistence and degradability

Components:

azoxystrobin (ISO):

Biodegradability : Result: Not readily biodegradable.

Stability in water : Remarks: The product is insoluble and sinks in water.

Fluindapyr:

Biodegradability : Result: Not readily biodegradable.

Flutriafol:

Biodegradability : Result: Not readily biodegradable.

Stability in water : Remarks: Does not readily hydrolyze

propane-1,2-diol:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 23.6 % Exposure time: 64 d

Method: OECD Test Guideline 306

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate, potassium salt:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 80 % Exposure time: 28 d

Method: OECD Test Guideline 301D

Remarks: Based on data from similar materials

Sodium alkyl naphthalene sulfonate:

Biodegradability : Result: Not readily biodegradable.

Remarks: Based on data from similar materials

Bioaccumulative potential

Components:

azoxystrobin (ISO):

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: 2.5 (68 °F / 20 °C)

Fluindapyr:

according to the OSHA Hazard Communication Standard



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Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)

Bioconcentration factor (BCF): < 500 Method: OECD Test Guideline 305

GLP: yes

Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

: $\log Pow: > 3$

Flutriafol:

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): 7 Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: 2.29

propane-1,2-diol:

Partition coefficient: n-

octanol/water

log Pow: -1.07

Mobility in soil

Components:

azoxystrobin (ISO):

Distribution among environmental compartments Remarks: Under normal conditions the substance has low to

moderate mobility in soil.

Fluindapyr:

Distribution among environ-

mental compartments

Remarks: Low mobility in soil.

Flutriafol:

Distribution among environ-

mental compartments

Remarks: Moderately mobile in soils

Stability in soil : Remarks: Very persistent 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-

An environmental hazard cannot be excluded in the event of

according to the OSHA Hazard Communication Standard



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mation unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

Components:

Flutriafol:

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

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

UNRTDG

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Flutriafol, Azoxystrobin)

Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : no

IATA-DGR

UN/ID No. : UN 3082

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

(Flutriafol, Azoxystrobin)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction (passen-

ger aircraft)

964

964

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

according to the OSHA Hazard Communication Standard



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N.O.S.

(Flutriafol, Azoxystrobin)

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.

(Flutriafol,)

Class : 9
Packing group : III
Labels : CLASS 9

ERG Code : 171 Marine pollutant : yes

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

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).

according to the OSHA Hazard Communication Standard



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The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermedi-

ate 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, Ta-

ble 116.4A:

sodium hydroxide 1310-73-2 $\Rightarrow 0 - < 0.1 \%$

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

117.3:

sodium hydroxide 1310-73-2 $\Rightarrow 0 - < 0.1 \%$

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

 azoxystrobin (ISO)
 131860-33-8

 Flutriafol
 76674-21-0

 Fluindapyr
 1383809-87-7

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

 Monobutyl ether of polymer of 2-methyloxirane / oxirane
 9038-95-3

Maine Chemicals of High Concern

octamethylcyclotetrasiloxane [D4] 556-67-2

Vermont Chemicals of High Concern

octamethylcyclotetrasiloxane [D4] 556-67-2

Washington Chemicals of High Concern

Product does not contain any listed chemicals

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

TCSI : Not 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 the following components that are not

on the Canadian DSL nor NDSL.

(RS)-2,4'-DIFLUORO-A-(1H-1,2,4-TRIAZOL-1-

YLMETHYL)BENZHYDRYL ALCOHOL

FLUINDAPYR TECHNICAL

azoxystrobin (ISO)

Smectite-group minerals

according to the OSHA Hazard Communication Standard



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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

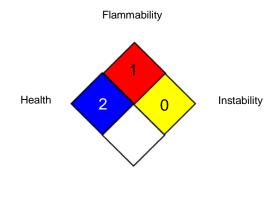
No substances are subject to a Significant New Use Rule.

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

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:



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, Compensa-

according to the OSHA Hazard Communication Standard



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tion, 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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End of Material Safety Data Sheet