according to the OSHA Hazard Communication Standard



## **Anthem® NXT Herbicide**

Version 1.0

Revision Date: 05/28/2025

SDS Number: 50003075

Date of last issue: 05/28/2025 Date of first issue: 05/28/2025

#### **SECTION 1. IDENTIFICATION**

**Product identifier** 

Product name Anthem® NXT Herbicide

Other means of identification

Product code 50003075

Recommended use of the chemical and restrictions on use

Recommended use Herbicide

**Restrictions on use**Use as recommended by the label.

Manufacturer or supplier's details

<u>Manufacturer</u> FMC Corporation

2929 WALNUT ST

PHILADELPHIA PA 19104

**USA** 

+1 (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)

Carcinogenicity : Category 2

Specific target organ toxicity :

Category 1

- repeated exposure

GHS label elements

according to the OSHA Hazard Communication Standard



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Hazard pictograms

Signal Word : DANGER

Hazard Statements : H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or repeated

exposure.

Precautionary Statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling.

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

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

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 with long lasting effects.

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

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Pyroxasulfone	447399-55-5	41.74
Fluthiacet-methyl	117337-19-6	1.26
propane-1,2-diol	57-55-6	>= 5 - < 10

Actual concentration is withheld as a trade secret

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

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

according to the OSHA Hazard Communication Standard



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ance.

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.

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 : Wash off with soap and water.

Wash contaminated clothing before re-use. If symptoms persist, call a physician.

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

Suspected of causing cancer.

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.

### **SECTION 5. FIRE-FIGHTING MEASURES**

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

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing

media

: Do not spread spilled material with high-pressure water

streams.

High volume water jet

Specific hazards during fire : Do not allow run-off from fire fighting to enter drains or water

according to the OSHA Hazard Communication Standard



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fighting courses.

Hazardous combustion prod-

ucts

Carbon oxides
Hydrogen fluoride

Fluorinated compounds Nitrogen oxides (NOx)

Sulfur oxides Sulphuric acid Hydrogen cyanide

Specific extinguishing meth-

ods

Remove undamaged containers from fire area if it is safe to do

SO

Use a water spray to cool fully closed containers.

Further information : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

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, protective equipment and emer-

gency procedures

Evacuate personnel to safe areas.

Use personal protective equipment. If it can be safely done, stop the leak.

Do not touch or walk through the spilled material. 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

Never return spills in original containers for re-use.

Collect as much of the spill as possible with a suitable absor-

bent material.

Pick up and transfer to properly labeled containers. Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against : Normal measures for preventive fire protection.

according to the OSHA Hazard Communication Standard



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fire and explosion

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.

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
propane-1,2-diol	57-55-6	TWA	10 mg/m3	US WEEL

### Personal protective equipment

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

approved filter.

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 concentration of the dangerous substance at the work place.

Protective measures : Wear suitable protective equipment.

Plan first aid action before beginning work with this product. Always have on hand a first-aid kit, together with proper in-

according to the OSHA Hazard Communication Standard



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structions.

Ensure that eye flushing systems and safety showers are

located close to the working place.

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

Do not inhale aerosol.

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 : liquid

Color : No data available

Odor : No data available

Odor Threshold : No data available

pH : 6.08 (72.1 °F / 22.3 °C)

In a 1% aqueous dispersion

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

Self-ignition : 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

according to the OSHA Hazard Communication Standard



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Relative density : No data available

Density : 1.2 g/cm3

Bulk density : No data available

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : 396.9 mm2/s (77 °F / 25 °C)

Explosive properties : Not explosive

Oxidizing properties : Non-oxidizing

Molecular weight : Not applicable

#### **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.

Avoid formation of aerosol.

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

Hazardous decomposition

products

No decomposition if stored and applied as directed.

according to the OSHA Hazard Communication Standard



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#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Acute toxicity**

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

**Product:** 

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

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

icity

Acute inhalation toxicity : LC50 (Rat): > 5.15 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

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

Assessment: The substance or mixture has no acute dermal

toxicity

Components:

Pyroxasulfone:

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

Remarks: no mortality

Acute inhalation toxicity : LC50 (Rat): > 6.56 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Remarks: no mortality

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

Remarks: no mortality

Fluthiacet-methyl:

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

Method: FIFRA 81.01

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

icity

Remarks: no mortality

LD50 (Mouse, male and female): > 5,000 mg/kg

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

city

Remarks: no mortality

Acute inhalation toxicity : LC50 (Rat, male and female): > 2.02 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

according to the OSHA Hazard Communication Standard



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Method: OECD Test Guideline 403

Symptoms: hypoactivity, Breathing difficulties

Assessment: The substance or mixture has no acute inhala-

tion toxicity

LC50 (Rat): > 5 mg/l Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: no mortality

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

Assessment: The component/mixture is minimally toxic after

single contact with skin. Remarks: no mortality

LD50 (Rabbit, male and female): > 2,000 mg/kg

Method: EPA OPP 81-2

GLP: yes

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

#### Skin corrosion/irritation

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

**Product:** 

Species : Rabbit

Assessment : Not classified as irritant

Result : slight irritation

**Components:** 

Pyroxasulfone:

Species : Rabbit

Result : No skin irritation

Fluthiacet-methyl:

Species : Rabbit

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Assessment : No skin irritation Result : No skin irritation

propane-1,2-diol:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Serious eye damage/eye irritation

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

**Product:** 

Species : Rabbit Result : slight irritation

Assessment : Not classified as irritant

**Components:** 

Pyroxasulfone:

Species : Rabbit

Result : slight irritation

Fluthiacet-methyl:

Species : Rabbit

Result : No eye irritation
Assessment : No eye irritation

propane-1,2-diol:

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

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:** 

Routes of exposure : Dermal

Assessment : Not a skin sensitizer.

Result : Did not cause sensitization on laboratory animals.

**Components:** 

Pyroxasulfone:

Test Type : Local lymph node assay (LLNA)

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Species : Mouse

Result : Does not cause skin sensitization.

Fluthiacet-methyl:

Routes of exposure : Skin contact Species : Guinea pig Method : FIFRA 81.06

Result : Does not cause skin sensitization.

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

Method : OECD Test Guideline 406

Result : Did not cause sensitization on laboratory animals.

GLP : yes

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:** 

Pyroxasulfone:

Genotoxicity in vitro : Test Type: Ames test

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Result: negative

Test Type: Chromosome aberration test in vitro

Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse Result: negative

Germ cell mutagenicity -

Assessment

Weight of evidence does not support classification as a germ

cell mutagen.

Fluthiacet-methyl:

Genotoxicity in vitro : Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

according to the OSHA Hazard Communication Standard



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Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse Result: negative

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

Suspected of causing cancer.

**Product:** 

Carcinogenicity - Assess-

ment

Limited evidence of carcinogenicity in animal studies

**Components:** 

Pyroxasulfone:

Species : Rat, male Exposure time : 2 Years

2.2 mg/kg bw/day

Result : positive Target Organs : Bladder

Carcinogenicity - Assess-

ment

: Limited evidence of carcinogenicity in animal studies

Fluthiacet-methyl:

Species : Mouse, male

Application Route : Oral

LOAEL : 10 mg/kg bw/day

Result : positive Target Organs : Liver

Remarks : Likely to be carcinogenic to humans (US EPA)

Species : Rat, male Application Route : Oral

LOAEL : 130 mg/kg bw/day

Result : positive

Target Organs : Pancreas, pancreatic islet

Remarks : Likely to be carcinogenic to humans (US EPA)

Carcinogenicity - Assess-

ment

: Limited evidence of carcinogenicity in animal studies

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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:

### Pyroxasulfone:

### Fluthiacet-methyl:

Effects on fertility : Test Type: Two-generation study

General Toxicity Parent: NOEL: 1.4 mg/kg bw/day Early Embryonic Development: NOEL: 36 mg/kg bw/day

Method: OECD Test Guideline 416

GLP: yes

Reproductive toxicity - As-

sessment

Animal testing showed no reproductive 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.

### STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure.

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**Product:** 

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

toxicant, repeated exposure, category 1.

**Components:** 

Pyroxasulfone:

Target Organs : Nervous system, Kidney, Liver, Cardio-vascular system, Blad-

der

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

toxicant, repeated exposure, category 1.

Repeated dose toxicity

**Components:** 

Fluthiacet-methyl:

Species: Rat, maleNOAEL: 6.19 mg/kgLOAEL: 216 mg/kgApplication Route: Oral

Exposure time : 90 d

Method : OECD Test Guideline 408

Target Organs : Liver

Species : Rat, male LOAEL : 4.2 mg/kg Application Route : Oral Exposure time : 14 d

Method : OECD Test Guideline 407

GLP : yes Target Organs : Liver

propane-1,2-diol:

Exposure time

Species : Rat, male and female

2 Years

NOAEL : 1,700 mg/kg Application Route : Oral

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.

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#### Components:

### Fluthiacet-methyl:

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

#### **Further information**

**Product:** 

Remarks : No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

#### Components:

### Pyroxasulfone:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 202 mg/l

Exposure time: 96 h

LL50 (Lepomis macrochirus (Bluegill sunfish)): > 208 mg/l

Exposure time: 96 h

LL50 (Cyprinodon variegatus (sheepshead minnow)): > 3.3

mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): > 4.4 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (green algae): 0.000743 mg/l

Exposure time: 72 h

EC50 (Lemna gibba (duckweed)): 0.00043 mg/l

Exposure time: 7 d

Toxicity to fish (Chronic tox-

icity)

NOEC (Pimephales promelas (fathead minnow)): 2 mg/l

Exposure time: 28 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 1.9 mg/l

Exposure time: 21 d

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): > 997 mg/kg

Exposure time: 14 d

Toxicity to terrestrial organ-

isms

LD50 (Apis mellifera (bees)): > 100 μg/bee

Exposure time: 48 d Remarks: Contact

LOEC (Anas platyrhynchos (Mallard duck)): 60 mg/kg

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**End point: Reproduction Test** 

Fluthiacet-methyl:

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): 0.15 -

0.17 mg/l

Exposure time: 96 h

Test Type: flow-through test

LC50 (Cyprinus carpio (Carp)): 0.51 - 0.83 mg/l

Exposure time: 96 h Method: EPA OPP 72-1

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Crustaceans): 2.3 mg/l

Exposure time: 48 h

Method: No information available.

NOEC (Daphnia magna (Water flea)): 0.035 mg/l

Exposure time: 21 d Test Type: flow-through test

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)):

0.00251 mg/l

Exposure time: 72 h

NOEC (Lemna gibba (duckweed)): 0.0017 mg/l

Exposure time: 14 d

IC50 (Lemna gibba (duckweed)): 0.0075 mg/l

Exposure time: 14 d

Toxicity to fish (Chronic tox-

icity)

NOEC (Fish): 0.0027 mg/l

Exposure time: 21 d Method: No data available

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 0.035 mg/l

Exposure time: 21 d

Toxicity to soil dwelling or-

ganisms

NOEC (Eisenia fetida (earthworms)): 948 mg/kg

Method: OECD Test Guideline 207

Toxicity to terrestrial organ-

isms

LC50 (Colinus virginianus (Bobwhite quail)): > 5,620 mg/kg

Exposure time: 5 d

Method: EPA OPP 71-2 (Avian Dietary Toxicity Test)

LD50 (Apis mellifera (bees)): > 100 μg/bee

Remarks: Contact

propane-1,2-diol:

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

Exposure time: 96 h

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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

Exposure time: 48 h

Method: OECD Test Guideline 201

Toxicity to daphnia and other : aquatic invertebrates (Chron-

Toxicity to microorganisms

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

ic toxicity)

EC50 (Pseudomonas putida): > 20,000 mg/l Exposure time: 18 h

Persistence and degradability

**Components:** 

Pyroxasulfone:

Biodegradability Result: Not readily biodegradable.

Fluthiacet-methyl:

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

Bioaccumulative potential

**Product:** 

Bioaccumulation Remarks: No data available

**Components:** 

Pyroxasulfone:

Bioaccumulation Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: 2.39 (77 °F / 25 °C)

Fluthiacet-methyl:

Bioaccumulation Remarks: Does not bioaccumulate.

Partition coefficient: nlog Pow: 3.77

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according to the OSHA Hazard Communication Standard



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octanol/water

propane-1,2-diol:

Partition coefficient: n-

octanol/water

log Pow: -1.07

Mobility in soil

**Components:** 

Pyroxasulfone:

Distribution among environ-

mental compartments

Adsorption/Soil

Koc: 57 - 114 ml/g, log Koc: > 1.75 Remarks: Highly mobile in soils

Stability in soil

Fluthiacet-methyl:

Distribution among environ-

mental compartments

Remarks: Slightly mobile in soils

Other adverse effects

**Product:** 

Ozone-Depletion Potential

Regulation: 40 CFR Protection of Environment; Part 82 Protection 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.

### **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.

Dispose of the packaging in accordance with the local regula-

tions in force.

according to the OSHA Hazard Communication Standard



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#### **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**

**UNRTDG** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Fluthiacet-methyl, Pyroxasulfone)

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.

(Fluthiacet-methyl, Pyroxasulfone)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction (passen- : 964

ger aircraft)

Environmentally hazardous : yes

**IMDG-Code** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

964

(Fluthiacet-methyl, Pyroxasulfone)

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.

(Fluthiacet-methyl, Pyroxasulfone)

Class : 9
Packing group : III
Labels : CLASS 9
ERG Code : 171
Marine pollutant : yes

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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

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**

Components	CAS-No.	Component RQ Calculated product	
		(lbs)	(lbs)
ethylbenzene	100-41-4	100	100 (F003)

#### 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:

ethylbenzene 100-41-4 >= 0 - < 0.1 %

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

ethylbenzene 100-41-4 >= 0 - < 0.1 %

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

according to the OSHA Hazard Communication Standard



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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
Pyroxasulfone 447399-55-5
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** 

ethylbenzene 100-41-4 octamethylcyclotetrasiloxane [D4] 556-67-2

**Washington Chemicals of High Concern** 

ethylbenzene 100-41-4

### California Prop. 65

WARNING: This product can expose you to chemicals including ethylbenzene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

### 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 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

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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:

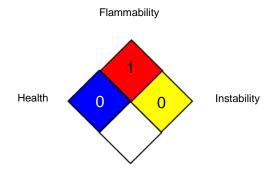
#### **CAUTION**

Harmful if swallowed, Causes eye irritation, Avoid contact with skin, eyes and clothing., Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals., 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.

#### **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

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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; 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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Prepared by:

**FMC** Corporation

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End of Material Safety Data Sheet