

# SAFETY DATA SHEET

Anthem® Maxx

SDS # : 7495-A  
Revision date: 2016-05-26  
Format: NA  
Version 1.03



## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

**Product Name** Anthem® Maxx

### Other means of identification

**Product Code(s)** 7495-A

**Synonyms** FLUTHIACET-METHYL: Acetic acid, [[2-chloro-4-fluoro-5-[(tetrahydro-3-oxo-1H,3H-[1,3,4]thiadiazolo [3,4-alpha] pyridazin-1-ylidene) amino] phenyl] thio]-, methyl ester (CAS); methyl [(2-chloro-4-fluoro-5-{[(1E)-3-oxo-5,6,7,8-tetrahydro-1H,3H-[1,3,4]thiadiazolo[3,4-a]pyridazin-1-ylidene]amino} phenyl)sulfanyl]acetate (IUPAC)

PYROXASULFONE:  
3-[[[5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]methyl]sulfonyl]-4,5-dihydro-5,5-dimethylisoxazole (CAS);  
3-[5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)pyrazol-4-ylmethylsulfonyl]-4,5-dihydro-5,5-dimethyl-1,2-oxazole (IUPAC)

**Active Ingredient(s)** Fluthiacet-methyl, Pyroxasulfone

**Formula** C<sub>15</sub>H<sub>15</sub>ClFN<sub>3</sub>O<sub>3</sub>S<sub>2</sub> (Fluthiacet-methyl)  
C<sub>12</sub>H<sub>14</sub>F<sub>5</sub>N<sub>3</sub>O<sub>4</sub>S (Pyroxasulfone)

**Chemical Family** Imine chemicals, Sulfonyloxazoline

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

**Recommended Use:** Herbicide

**Restrictions on Use:** Use as recommended by the label

### Manufacturer Address

FMC Corporation  
2929 Walnut Street  
Philadelphia, PA 19104  
(215) 299-6000 (General Information)  
msdsinfo@fmc.com (E-Mail General Information)

**Emergency telephone number** In case of intoxication call emergency numbers SINTOX (poison control center):  
01-800-00-928-00; 01 (55) 5611 2634 and 01 (55) 5598 6659, 24 hour service 365 days a year.

**Federal Transport Police** 062

**Fire brigade** 068

**Red Cross** 065

**Civil Protection** 01 800 004 1300

**PROFEPA = Attorney General for** 01 800 776 3372

**Enviromental Protection**

**SETIQ [Emergency Transportation** From anywhere in the Mexican Republic: 01 800 002 1400 (24 hour)

**System for the Chemical Industry]** In Mexico City and the Metropolitan area: 01 (55) 5559 1588

In case of spills call COTRA 045 55 4194 0157  
 (Committee on Transport and Storage):

## 2. HAZARDS IDENTIFICATION

### Classification


#### OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1

### GHS Label elements, including precautionary statements

#### EMERGENCY OVERVIEW

<p><b>Danger</b></p> <p><b>Hazard Statements</b>          H351 - Suspected of causing cancer          H372 - Causes damage to organs through prolonged or repeated exposure</p> 
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#### **Precautionary Statements - Prevention**

P201 - Obtain special instructions before use  
 P202 - Do not handle until all safety precautions have been read and understood  
 P281 - Use personal protective equipment as required  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray

#### **Precautionary Statements - Response**

P308 + P313 - If exposed or concerned: Get medical advice/attention

#### **Precautionary Statements - Storage**

P405 - Store locked up

#### **Precautionary Statements - Disposal**

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

#### **Hazards not otherwise classified (HNOC)**

No hazards not otherwise classified were identified.

#### **Other Information**

Very toxic to aquatic life with long lasting effects.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Family** Imine chemicals, Sulfonyloxazoline.

Chemical name	CAS-No	Weight %
Pyroxasulfone	447399-55-5	45.22
Fluthiacet-methyl	117337-19-6	1.38
Propylene glycol	57-55-6	5-10

Synonyms are provided in Section 1.

#### 4. FIRST AID MEASURES

<b>Eye Contact</b>	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.
<b>Skin Contact</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, contact emergency medical services, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
<b>Ingestion</b>	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
<b>Most important symptoms and effects, both acute and delayed</b>	None known.
<b>Indication of immediate medical attention and special treatment needed, if necessary</b>	Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Carbon dioxide (CO <sub>2</sub> ), Foam, Dry powder, Water spray.
<b>Specific Hazards Arising from the Chemical</b>	
<b>Explosion data</b>	
<b>Sensitivity to Mechanical Impact</b>	Not sensitive.
<b>Sensitivity to Static Discharge</b>	Not sensitive.
<b>Protective equipment and precautions for firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.
<b>Other</b>	For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
<b>Environmental Precautions</b>	Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.
<b>Methods for Containment</b>	Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
<b>Methods for cleaning up</b>	Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

#### 7. HANDLING AND STORAGE

<b>Handling</b>	Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.
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**Storage** Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Store in original container.

**Incompatible products** None known

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Propylene glycol (57-55-6)	-	-	TWA: 10 mg/m <sup>3</sup> aerosol only  TWA: 50 ppm aerosol and vapor  TWA: 155 mg/m <sup>3</sup> aerosol and vapor	-

### Appropriate engineering controls

**Engineering measures** Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** For dust, splash, mist or spray exposure, wear chemical protective goggles.

**Skin and Body Protection** Wear long-sleeved shirt, long pants, socks, shoes, chemical-resistant gloves and headgear.

**Hand Protection** Protective gloves

**Respiratory Protection** For dust, splash, mist or spray exposures wear a filtering mask.

**Hygiene measures** Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Launder work clothing separately from regular household laundry.

**General information** If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance</b>	Liquid
<b>Physical State</b>	Liquid
<b>Color</b>	No information available
<b>Odor</b>	Not identified
<b>Odor threshold</b>	No information available
<b>pH</b>	6.08 a 22.3°C determina como una solución 1.05% en agua (1% solution)
<b>Melting point/freezing point</b>	Not applicable
<b>Boiling Point/Range</b>	No information available
<b>Flash point</b>	> 100 °C / > 212 °F
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Flammability Limit in Air</b>	
<b>Upper flammability limit:</b>	No information available

Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Density	10.02 lb/gal (1.20 g/mL)
Specific gravity	No information available
Water solubility	No information available
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	396.9 cSt @ 25 °C
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Molecular weight	No information available
Bulk density	No information available

## 10. STABILITY AND REACTIVITY

Reactivity	Not applicable
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	None known.
Hazardous Decomposition Products	Carbon oxides (COx), Nitrogen oxides (NOx), Sulfur oxides, Hydrogen chloride, Hydrogen fluoride.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

LD50 Oral	> 5000 mg/kg (rat)
LD50 Dermal	> 5000 mg/kg (rat)
LC50 Inhalation	> 5.15 mg/L 4 hr (rat)
Serious eye damage/eye irritation	Practically non-irritating.
Skin corrosion/irritation	Slightly irritating (rabbit).
Sensitization	Non-sensitizing

### Information on toxicological effects

Symptoms	None known.
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### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic toxicity	Pyroxasulfone, Fluthiacet-methyl: Effects are expected to be similar to those that are seen with acute toxicity.
Mutagenicity	Pyroxasulfone, Fluthiacet-methyl: Not genotoxic in laboratory studies.
Carcinogenicity	Fluthiacet-methyl caused increases in benign pancreatic tumors in male rats at the highest dose, along with pancreatic and liver toxicity. There was an increase in liver tumors at two highest doses in male mice that could be secondary to liver toxicity. New data indicates that there is no human risk.  Pyroxasulfone was not carcinogenic in lifetime feeding studies in mice. Pyroxasulfone caused an increased incidence of tumors in rats in the following organs(s): urinary bladder. The tumors seen with Pyroxasulfone were caused through a non-genotoxic mechanism, which is not relevant at low doses.
Neurological effects	Pyroxasulfone, Fluthiacet-methyl: Not neurotoxic.
Reproductive toxicity	Fluthiacet-methyl: No toxicity to reproduction in animal studies.

<b>Developmental toxicity</b>	Pyroxasulfone did not cause reproductive toxicity in a two-generation study in rats. Fluthiacet-methyl: A slight delay in fetal development in the rat, with no effects in the rabbit.
<b>STOT - single exposure</b>	Pyroxasulfone: Developmental toxicity was observed in rat offspring. May cause harm to unborn child.
<b>STOT - repeated exposure</b>	No information available.
<b>Target organ effects</b>	Causes damage to organs through prolonged or repeated exposure. Fluthiacet-methyl: Liver, bone marrow, spleen, pancreas, lymphatic system, hematopoietic system, uterus and blood.
<b>Neurological effects</b>	Pyroxasulfone: Liver, kidney, bladder, cardiovascular system,
<b>Aspiration hazard</b>	Pyroxasulfone, Fluthiacet-methyl: Not neurotoxic. No information available.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Pyroxasulfone (447399-55-5)				
Active Ingredient(s)	Duration	Species	Value	Units
Pyroxasulfone	96 h LC50	Rainbow trout	>2.2	mg/L
	96 h LC50	Bluegill sunfish	>2.8	mg/L
	48 h EC50	Daphnia magna	>4.4	mg/L
	96 h LC50	Algae	0.00079	mg/L

Fluthiacet-methyl (117337-19-6)				
Active Ingredient(s)	Duration	Species	Value	Units
Fluthiacet-methyl	72 h LC50	Algae	0.00251	mg/L
	96 h LC50	Fish	0.043	mg/L
	48 h EC50	Crustacea	2.3	mg/L
	21 d NOEC	Fish	0.0027	mg/L
	21 d NOEC	Crustacea	0.035	mg/L

<b>Persistence and degradability</b>	Pyroxasulfone: DT <sub>50</sub> in soil (field studies) = 33-160 days. Fluthiacet-methyl: Non-persistent. Does not readily hydrolyze.
<b>Bioaccumulation</b>	Pyroxasulfone: The substance has a low potential to bioaccumulate in the environment.  Fluthiacet-methyl: The substance does not have a potential for bioconcentration.
<b>Mobility</b>	Pyroxasulfone: Mobile.  Fluthiacet-methyl: Slightly mobile. Not expected to reach groundwater.

## 13. DISPOSAL CONSIDERATIONS

<b>Waste disposal methods</b>	Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.
<b>Contaminated Packaging</b>	Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

## 14. TRANSPORT INFORMATION

<b>DOT</b>	This material is not a hazardous material as defined by U.S. Department of Transportation
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at 49 CFR Parts 100 through 185.

**TDG**

**UN/ID no** UN3082  
**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard class** 9  
**Packing Group** III  
**Marine Pollutant** Fluthiacet-methyl, Pyroxasulfone.  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Fluthiacet-methyl, Pyroxasulfone), 9, III

**ICAO/IATA**

**UN/ID no** UN3082  
**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard class** 9  
**Packing Group** III  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Fluthiacet-methyl, Pyroxasulfone), 9, III

**IMDG/IMO**

**UN/ID no** UN3082  
**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard class** 9  
**Packing Group** III  
**EmS No.** F-A, S-F  
**Marine Pollutant** Fluthiacet-methyl, Pyroxasulfone  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Fluthiacet-methyl, Pyroxasulfone), 9, III

**15. REGULATORY INFORMATION**

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

**Acute health hazard** No  
**Chronic health hazard** Yes  
**Fire hazard** No  
**Sudden release of pressure hazard** No  
**Reactive Hazard** No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Methyl ethyl ketone 78-93-3	5000 lb 2270 kg	

**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**

Anthem Maxx may cause substantial, but temporary, eye injury.

This pesticide is toxic to fish, aquatic invertebrates, and to some plants at very low concentrations.

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Propylene glycol 57-55-6	X		X

**International Inventories**

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Propylene glycol 57-55-6	X	X	X	X	X	X	X	X

Mexico - Grade

Slight risk, Grade 1

WHMIS Hazard Class

D2A - Very toxic materials



To be determined

**16. OTHER INFORMATION**

NFPA	Health Hazards 1	Flammability 1	Instability 0	Special Hazards -
HMIS	Health Hazards 1*	Flammability 1	Physical hazard 0	Personal Protection X

Revision date: 2016-05-26  
 Reason for revision: Initial Release

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Prepared By:



**End of Safety Data Sheet**