

SAFETY DATA SHEET

Anthem® Maxx

SDS # : 7495-A
Revision date: 2015-04-28
Format: NA
Version 1.01



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

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
1735 Market Street
Philadelphia, PA 19103
(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.

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 |
|-----------------|------------|

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| Specific target organ toxicity (repeated exposure) | Category 1 |
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GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

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|---|
| <p>Danger</p> <p>Hazard Statements H351 - Suspected of causing cancer H372 - Causes damage to organs through prolonged or repeated exposure</p>  |
|---|

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

Eye Contact

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.

Skin Contact

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.

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|---|---|
| Inhalation | 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. |
| Ingestion | 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. |
| Most important symptoms and effects, both acute and delayed | None known. |
| Indication of immediate medical attention and special treatment needed, if necessary | Treat symptomatically. |

5. FIRE-FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

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| Personal Precautions | 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. |
| Other | For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above. |
| Environmental Precautions | Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains. |
| Methods for Containment | Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. |
| Methods for cleaning up | 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

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|------------------------------|--|
| Handling | Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. |
| 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 ³ (aerosol only) TWA: 50 ppm (aerosol and vapor) TWA: 155 mg/m ³ (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

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

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, along with hepatotoxicity, that could both 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.

Pyroxasulfone did not cause reproductive toxicity in a two-generation study in rats.

Developmental toxicity Fluthiacet-methyl: A slight delay in fetal development in the rat, with no effects in the rabbit.

Pyroxasulfone: Developmental toxicity was observed in rat offspring. May cause harm to unborn child.

STOT - single exposure No information available.

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.

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| Target organ effects | Fluthiacet-methyl: Liver, bone marrow, spleen, pancreas, lymphatic system, hematopoietic system, uterus and blood, |
| Neurological effects | , Pyroxasulfone: Liver, kidney, bladder, cardiovascular system, |
| Aspiration hazard | 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 |

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

13. DISPOSAL CONSIDERATIONS

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| Waste disposal methods | 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. |
| Contaminated Packaging | 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

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| DOT | This material is not a hazardous material as defined by U.S. Department of Transportation 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

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| 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):

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

| Component | TSCA (United States) | DSL (Canada) | EINECS/ELI NCS (Europe) | ENCS (Japan) | China (IECSC) | KECL (Korea) | PICCS (Philippines) | AICS (Australia) |
|--------------------------------------|-------------------------|-----------------|-------------------------------|-----------------|------------------|-----------------|------------------------|---------------------|
| Propylene glycol 57-55-6 (5-10) | X | X | X | X | X | X | X | X |

Mexico - Grade Slight risk, Grade 1**WHMIS Hazard Class** D2A - Very toxic materials**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: 2015-04-28
Revision note Initial Release**Disclaimer**

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Prepared By:

End of Safety Data Sheet