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] pyrazin-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]pyrazin-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_{15}H_{15}ClFN_{3}O_{3}S_{2} (Fluthiacet-methyl)
C_{12}H_{14}F_{5}N_{3}O_{4}S (Pyroxasulfone)

Chemical Family
Imine chemicals, Sulfonylooxazoline

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 SIINTOX (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 Environmental Protection
01 800 776 3372
SETIQ [Emergency Transportation System for the Chemical Industry]
From anywhere in the Mexican Republic: 01 800 002 1400 (24 hour)
In Mexico City and the Metropolitan area: 01 (55) 5559 1588
In case of spills call COTRA (Committee on Transport and Storage): 045 55 4194 0157

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

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

<table>
<thead>
<tr>
<th>Carcinogenicity</th>
<th>Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

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
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, Sulfonylloxazoline.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyroxasulfone</td>
<td>447399-55-5</td>
<td>45.22</td>
</tr>
<tr>
<td>Fluthiacet-methyl</td>
<td>117337-19-6</td>
<td>1.38</td>
</tr>
<tr>
<td>Propylene glycol</td>
<td>57-55-6</td>
<td>5-10</td>
</tr>
</tbody>
</table>
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.

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

Suitable Extinguishing Media
Carbon dioxide (CO₂), Foam, Dry powder, Water spray.

Specific Hazards Arising from the Chemical Explosion data
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

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

Handling
Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>British Columbia</th>
<th>Quebec</th>
<th>Ontario TWAEV</th>
<th>Alberta</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol</td>
<td>-</td>
<td>-</td>
<td>TWA: 10 mg/m³ aerosol only</td>
<td>-</td>
</tr>
<tr>
<td>(57-55-6)</td>
<td></td>
<td></td>
<td>TWA: 50 ppm aerosol and vapor</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA: 155 mg/m³ aerosol and vapor</td>
<td></td>
</tr>
</tbody>
</table>

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
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 that could be secondary to liver toxicity. New data indicates that there is no human risk.

Neurological effects
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.

Reproductive toxicity
Pyroxasulfone, Fluthiacet-methyl: Not neurotoxic.

Fluthiacet-methyl: No toxicity to reproduction in animal studies.
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.

Developmental toxicity

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.

Target organ effects
Fluthiacet-methyl: Liver, bone marrow, spleen, pancreas, lymphatic system, hematopoietic system, uterus and blood.

Pyroxasulfone: Liver, kidney, bladder, cardiovascular system, neurological effects
Pyroxasulfone, Fluthiacet-methyl: Not neurotoxic.

Aspiration hazard
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

<table>
<thead>
<tr>
<th>Active Ingredient(s)</th>
<th>Duration</th>
<th>Species</th>
<th>Value</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyroxasulfone</td>
<td>96 h LC50</td>
<td>Rainbow trout</td>
<td>&gt;2.2</td>
<td>mg/L</td>
</tr>
<tr>
<td>Pyroxasulfone</td>
<td>96 h LC50</td>
<td>Bluegill sunfish</td>
<td>&gt;2.8</td>
<td>mg/L</td>
</tr>
<tr>
<td>Pyroxasulfone</td>
<td>48 h EC50</td>
<td>Daphnia magna</td>
<td>&gt;4.4</td>
<td>mg/L</td>
</tr>
<tr>
<td>Pyroxasulfone</td>
<td>96 h LC50</td>
<td>Algae</td>
<td>0.00079</td>
<td>mg/L</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Active Ingredient(s)</th>
<th>Duration</th>
<th>Species</th>
<th>Value</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluthiacet-methyl</td>
<td>72 h LC50</td>
<td>Algae</td>
<td>0.00251</td>
<td>mg/L</td>
</tr>
<tr>
<td>Fluthiacet-methyl</td>
<td>96 h LC50</td>
<td>Fish</td>
<td>0.043</td>
<td>mg/L</td>
</tr>
<tr>
<td>Fluthiacet-methyl</td>
<td>48 h EC50</td>
<td>Crustacea</td>
<td>2.3</td>
<td>mg/L</td>
</tr>
<tr>
<td>Fluthiacet-methyl</td>
<td>21 d NOEC</td>
<td>Fish</td>
<td>0.0027</td>
<td>mg/L</td>
</tr>
<tr>
<td>Fluthiacet-methyl</td>
<td>21 d NOEC</td>
<td>Crustacea</td>
<td>0.035</td>
<td>mg/L</td>
</tr>
</tbody>
</table>

Persistence and degradability
Pyroxasulfone: DT_{50} in soil (field studies) = 33-160 days.

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

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

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl ethyl ketone</td>
<td>5000 lb</td>
<td></td>
</tr>
<tr>
<td>78-93-3</td>
<td>2270 kg</td>
<td></td>
</tr>
</tbody>
</table>

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
Anthem® Maxx

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>TSCA (United States)</th>
<th>DSL (Canada)</th>
<th>EINECS/ELINCS (Europe)</th>
<th>ENCS (Japan)</th>
<th>China (IECSC)</th>
<th>KECL (Korea)</th>
<th>PICCS (Philippines)</th>
<th>AICS (Australia)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

Mexico - Grade
Slight risk, Grade 1

WHMIS Hazard Class
D2A - Very toxic materials

To be determined

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>*</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical hazard</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>*</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

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

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Prepared By:
End of Safety Data Sheet