DuPont™ Metsulfuron Methyl MUP Herbicide

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DuPont™ Metsulfuron Methyl MUP Herbicide
Tradename/Synonym : DPX-T6376 60XP MUP
METSULFURON METHYL (Methyl 2-[[[[4-methoxy-6-methyl-1,3,-triazin-2-yl)amino]carbonyl]amino]sulfonyl]benzoate)
Metsulfuron Methyl 60DF

SDS Number : 130000118729
Product Use : Manufacturing Use Product (MUP)
Manufacturer : E.I. du Pont Canada Company
P.O. Box 2200, Streetsville
Mississauga, ON
L5M 2H3
Canada

Product Information : 1-800-387-2122
Medical Emergency : 1-800-441-3637 (24 hours)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION!
Causes moderate eye irritation. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Potential Health Effects
This section includes potential acute adverse effects which could occur if this material is not used according to the label.

Skin
**Modified Aromatic Sulfonate Salt**: Causes skin irritation. May cause: Pain, burning sensation, itching, redness, swelling, or rash.

**Phosphate Salt**: Causes skin irritation. May cause: Pain, burning sensation, itching, redness, swelling, or rash.

**Eyes**: May cause: Irritation with discomfort, pain, redness, or visual impairment.

**Carcinogenicity**
None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Concentration</th>
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<tr>
<td>Metsulfuron methyl</td>
<td>74223-64-6</td>
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<tr>
<td>Modified Aromatic Sulfonate Salt</td>
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<td>1 - 5 %</td>
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<tr>
<td>Phosphate Salt</td>
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<td>1 - 5 %</td>
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<tr>
<td>Other Ingredients</td>
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</table>

*Hazardous Materials Information Review Act (HMIRA) Trade Secret – see Section 15 (Regulatory) for further information.*

### SECTION 4. FIRST AID MEASURES
Skin contact : Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Inhalation : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.

Ingestion : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.

General advice : Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

For medical emergencies involving this product, call toll free 1-800-441-3637. See Label for Additional Precautions and Directions for Use.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Flammable Properties

Flash point : Not applicable

Suitable extinguishing media : Water spray, Dry chemical, Foam, Carbon dioxide (CO2)

Unsuitable extinguishing media : High volume water jet, (contamination risk)

Firefighting Instructions : In the event of fire, wear self-contained breathing apparatus. Wear full protective equipment. (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.
SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus.

Spill Cleanup : Sweep up and shovel into suitable containers for disposal. If spill area is on ground near valuable plants or trees, remove 5 cm of top soil after initial clean-up.

Accidental Release Measures : Prevent material from entering sewers, waterways, or low areas. Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Storage : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Store in a cool, dry place. Keep out of the reach of children.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment
Skin and body protection : Wear protective clothing such as gloves, apron, boots, or coveralls, as appropriate.

Protective measures : Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Exposure Guidelines
Exposure Limit Values

4 / 9
**Metsulfuron methyl**

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- **Form**: solid, granular
- **Color**: light brown
- **Odor**: odourless
- **pH**: 5.0
- **Specific gravity**: 1.47 at 25 °C (77 °F)
- **Bulk density**: Tapped
- **Water solubility**: dispersible

**SECTION 10. STABILITY AND REACTIVITY**

- **Stability**: Stable at normal temperatures and storage conditions.
- **Conditions to avoid**: None reasonably foreseeable.
- **Incompatibility**: No materials to be especially mentioned.

**SECTION 11. TOXICOLOGICAL INFORMATION**

- **Dermal LD50**: > 5,000 mg/kg, Rat
- **Oral LD50**: > 5,000 mg/kg, Rat
- **Skin irritation**: No skin irritation, Rabbit
- **Eye irritation**: Slight irritation, Rabbit
Sensitisation : Animal test did not cause sensitization by skin contact, Guinea pig

Further information : This product has no known adverse effect on human health.

Metsulfuron methyl
Inhalation 4 h LC50 : > 5.3 mg/l, Rat

Repeated dose toxicity : The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

   Oral
   Rat

   Reduced body weight gain, Organ weight changes, Liver

   Dermal
   Rabbit

   Skin irritation

Carcinogenicity : Not classifiable as a human carcinogen.
   Did not show carcinogenic effects in animal experiments.

Reproductive toxicity : No toxicity to reproduction
   Animal testing did not show any effects on fertility.

Teratogenicity : Animal testing showed no developmental toxicity.

Phosphate Salt
Inhalation : Rat
   An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
   Information given is based on data obtained from similar substances.

Repeated dose toxicity : Ingestion
   Dog
   90 d

   No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.
   Information given is based on data obtained from similar substances.

Reproductive toxicity : No toxicity to reproduction
   Animal testing showed no reproductive toxicity.
Information given is based on data obtained from similar substances.

Teratogenicity:
Animal testing showed no developmental toxicity.
Information given is based on data obtained from similar substances.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity
Metsulfuron methyl
96 h LC50: Oncorhynchus mykiss (rainbow trout) > 150 mg/l
72 h EC50: Anabaena flos-aquae (cyanobacteria) 0.066 mg/l
14 d EC50: Lemna minor (common duckweed) 0.00036 mg/l
48 h EC50: Daphnia magna (Water flea) > 120 mg/l

Phosphate Salt
96 h LC50: Oncorhynchus mykiss (rainbow trout) > 100 mg/l OECD Test Guideline 203
Information given is based on data obtained from similar substances.

72 h ErC50: Desmodesmus subspicatus (green algae) > 100 mg/l OECD Test Guideline 201
Information given is based on data obtained from similar substances.

72 h NOEC: Desmodesmus subspicatus (green algae) > 100 mg/l OECD Test Guideline 201
Information given is based on data obtained from similar substances.

48 h EC50: Daphnia magna (Water flea) > 100 mg/l OECD Test Guideline 202
Information given is based on data obtained from similar substances.

Environmental Fate
DuPont™ Metsulfuron Methyl MUP Herbicide
Bioaccumulation:
This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).
Additional ecological information: Environmental Hazards: Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal: Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container disposal: Refer to the product label for instructions. Do not transport if this container is damaged or leaking.

In the event of a major spill, fire or other emergency, call 1-800-441-3637 day or night.

SECTION 14. TRANSPORT INFORMATION

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Marine pollutant: yes (Metsulfuron methyl)
Not regulated as a hazardous material by DOT.
Not regulated as a hazardous material by TDG.

SECTION 15. REGULATORY INFORMATION

EPA Reg. No. : 352-872
In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all label directions.
This product is excluded from listing requirements under EPA/TSCA.

PCP Registration # : 26677
Remarks : Regulated under the Pest Control Products Act - WHMIS exempt.

SECTION 16. OTHER INFORMATION

MSDS preparation date : 04/05/2017

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Contact person : E.I. DuPont Canada Company, Mississauga, Ontario, L5M 2H3

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