

# Material Safety Data Sheet



## **DuPont™ Metsulfuron Methyl 60 DF MUP**

Version 2.1

Revision Date 04/02/2014

Ref. 130000036203

This SDS adheres to the standards and regulatory requirements of Canada and may not meet the regulatory requirements in other countries.

### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : DuPont™ Metsulfuron Methyl 60 DF MUP  
Tradename/Synonym : Metsulfuron Methyl 60DF  
B10838190  
METSULFURON METHYL (Methyl 2-[[[[[4-methoxy-6-methyl-1,3,4-triazin-2-yl)amino]carbonyl]amino]sulfonyl]benzoate)

MSDS Number : 130000036203

Product Use : Herbicide

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 eye irritation. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Avoid breathing vapours or mist.

#### Potential Health Effects

# Material Safety Data Sheet



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

### Eyes

Metsulfuron methyl : May cause eye irritation. May cause: Tearing, redness, or discomfort..

### 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

Component	CAS-No.	Concentration
Metsulfuron methyl	74223-64-6	60 %
Other Ingredients		40 %

## 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.



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- 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.

**SECTION 5. FIREFIGHTING MEASURES**

- Flammable Properties  
Flash point : not applicable
- Fire and Explosion Hazard : Not a fire or explosion hazard.  
  
Under severe dusting conditions, this material may form explosive mixtures in air.
- Suitable extinguishing media : Water spray, Foam, Dry chemical, 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.  
Evacuate personnel to safe areas. (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. Do not allow run-off from fire fighting to enter drains or water courses.

# Material Safety Data Sheet



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Ref. 130000036203

### **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. Wear personal protective equipment.              |
| Spill Cleanup               | : Prevent further leakage or spillage. Dike spill. Sweep up and shovel into suitable containers for disposal.                             |
| Accidental Release Measures | : Prevent material from entering sewers, waterways, or low areas. Follow applicable Federal, State/Provincial and Local laws/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.                                      |
| Handling (Physical Aspects) | : Keep away from heat and sources of ignition. Dust may form explosive mixture in air.  |
| Storage                     | : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Keep in a dry, cool place. Keep out of the reach of children. |

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- |                               |   |
|-------------------------------|---|
| Engineering controls          | : Use only with adequate ventilation.       |
| Personal protective equipment |   |
| Skin and body protection      | : Applicators and other handlers must wear: |

# Material Safety Data Sheet



## DuPont™ Metsulfuron Methyl 60 DF MUP

Version 2.1

Revision Date 04/02/2014

Ref. 130000036203

Long sleeved shirt and long pants  
Shoes plus socks  
PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:  
Coveralls  
Shoes plus socks

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

Metsulfuron methyl AEL *	(DUPONT)	10 mg/m <sup>3</sup>	8 & 12 hr. TWA Total dust.
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\* 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	: granular, solid
Color	: off-white
Odor	: none
pH	: 4.2
Specific gravity	: 1.47 at 25 °C (77 °F)
Bulk density	: 33.9 lb/ft <sup>3</sup> loose
Water solubility	: 2.8 g/l dispersible



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**SECTION 10. STABILITY AND REACTIVITY**

- Stability : Stable at normal temperatures and storage conditions.
- Conditions to avoid : Heat, flames and sparks.
- Incompatibility : None reasonably foreseeable.
- Hazardous decomposition products : Decomposition will not occur.
- Hazardous reactions : Hazardous polymerisation does not occur.

**SECTION 11. TOXICOLOGICAL INFORMATION**

- Metsulfuron methyl
  - Dermal LD50 : > 5,000 mg/kg , rabbit  
The result is based on a weight of evidence approach.
  - Oral LD50 : > 5,000 mg/kg , rat
  - Inhalation 4 h LC50 : > 5.3 mg/l , rat
  - Skin irritation : No skin irritation, rabbit
  - Eye irritation : No eye irritation, rabbit
  - Skin sensitization : Animal test did not cause sensitization by skin contact., guinea pig
  - Repeated dose toxicity :  
The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.  
  
Oral  
rat



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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.
- Mutagenicity : Animal testing did not show any mutagenic effects.  
Did not cause genetic damage in cultured bacterial cells.  
Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others.
- Reproductive toxicity : No toxicity to reproduction  
Animal testing did not show any effects on fertility.
- Teratogenicity : Animal testing showed no developmental toxicity.

**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 0.00036 mg/l
- 48 h EC50 : Daphnia magna (Water flea) > 120 mg/l
- Additional ecological information : Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment

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or disposing of equipment washwaters or rinsate.

### **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.

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

- IMDG UN number : 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
SOLID, N.O.S. (Metsulfuron methyl)  
Class : 9  
Packing group : III  
Labelling No. : 9
- Marine pollutant : yes (Metsulfuron methyl)

Not regulated as a hazardous material by IATA.

Optional classification as per IATA Special Provision A97.

Not regulated as a hazardous material by TDG.

### **SECTION 15. REGULATORY INFORMATION**

- PCP Registration # : 26677



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Remarks : Regulated under the Pest Control Products Act - WHMIS exempt.

### **SECTION 16. OTHER INFORMATION**

	NFPA	HMIS
Health :	1	1
Flammability :	1	1
Reactivity/Physical hazard :	0	0

MSDS preparation date : 04/02/2014

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

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