

Material Safety Data Sheet



DuPont™ Escort® Herbicide

Version 2.0

Revision Date 03/02/2011

Ref. 130000023977

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™ Escort® Herbicide
Tradename/Synonym	:	B10838190 METSULFURON METHYL (Methyl 2-[[[(4-methoxy-6-methyl-1,3,4-triazin-2-yl)amino]carbonyl]amino]sulfonyl]benzoate)
MSDS Number	:	130000023977
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



DuPont™ Escort® Herbicide

Version 2.0

Revision Date 03/02/2011

Ref. 130000023977

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. Pain, tearing.

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.

Material Safety Data Sheet



DuPont™ Escort® Herbicide

Version 2.0

Revision Date 03/02/2011

Ref. 130000023977

- 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. FIRE-FIGHTING 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



DuPont™ Escort® Herbicide

Version 2.0

Revision Date 03/02/2011

Ref. 130000023977

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 product in original container only, away from other pesticides, fertilizer, food or feed. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- | | |
|----------------------|---------------------------------------|
| Engineering controls | : Use only with adequate ventilation. |
|----------------------|---------------------------------------|

Material Safety Data Sheet



DuPont™ Escort® Herbicide

Version 2.0

Revision Date 03/02/2011

Ref. 130000023977

Personal protective equipment

Skin and body protection : Applicators and other handlers must wear:
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/m³ 8 & 12 hr. TWA

* 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
Color : off-white
Odor : none
pH : 4.2
Specific Gravity : 1.47 at 25 °C (77 °F)
Bulk density : 33.9 lb/ft³
loose
Water solubility : 2.8 g/l
dispersible



DuPont™ Escort® Herbicide

Version 2.0

Revision Date 03/02/2011

Ref. 130000023977

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 reactions : Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

- DuPont™ Escort® Herbicide
Further information : No data is available on the product itself.
- Metsulfuron methyl
Dermal LD50 : > 2,000 mg/kg , rabbit
- Oral LD50 : > 5,000 mg/kg , rat
- Inhalation 4 h LC50 : > 5.3 mg/l , rat
- Skin irritation : No skin irritation, rabbit
- Eye irritation : Irritating to eyes., 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.



DuPont™ Escort® Herbicide

Version 2.0

Revision Date 03/02/2011

Ref. 130000023977

Oral
rat
Reduced body weight gain, Organ weight changes, Liver

Dermal
rabbit
Skin irritation

Carcinogenicity : Did not show carcinogenic effects in animal experiments.

Mutagenicity : Did not show mutagenic effects in animal experiments.

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 : 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

21 d : NOEC Oncorhynchus mykiss (rainbow trout) 68 mg/l

Material Safety Data Sheet



DuPont™ Escort® Herbicide

Version 2.0

Revision Date 03/02/2011

Ref. 130000023977

Toxicity to other organisms

Metsulfuron methyl

LD50 : Anas platyrhynchos (Mallard duck) > 2,510 mg/kg

LC50 : Colinus virginianus (Bobwhite quail) > 5,620 mg/kg

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 or disposing of equipment washwaters or rinsate.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal : In accordance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemical or used container.

SECTION 14. TRANSPORT INFORMATION

IATA_C	UN number	: 3077
	Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Metsulfuron methyl)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9MI
IMDG	UN number	: 3077
	Proper shipping name	: Environmentally hazardous substance, solid, n.o.s.
	Class	: 9
	Packing group	: III
	Labelling No.	: 9
	Marine pollutant	: yes (Metsulfuron methyl)

Material Safety Data Sheet



DuPont™ Escort® Herbicide

Version 2.0

Revision Date 03/02/2011

Ref. 130000023977

Not regulated as a hazardous material by DOT.
Not regulated as a hazardous material by TDG.

SECTION 15. REGULATORY INFORMATION

PCP Registration # : 23005
Remarks : Regulated under the Pest Control Products Act - WHMIS exempt.

SECTION 16. OTHER INFORMATION

MSDS preparation date : 03/02/2011

DuPont(TM), Escort(R)
are trademarks of E. I. du Pont de Nemours and Company

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



DuPont™ Escort® Herbicide

Version 2.0

Revision Date 03/02/2011

Ref. 130000023977

Significant change from previous version is denoted with a double bar.