

**DuPont™ Oust® Extra Herbicide**

Version 2.0

Revision Date 10/31/2011

Ref. 130000029345

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

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	DuPont™ Oust® Extra Herbicide
Tradename/Synonym	:	DPX-GJP86 B11622901 SULFOMETURON METHYL: Methyl 2-[[[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]benzoate METSULFURON METHYL: Methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]benzoate
MSDS Number	:	130000029345
Product Use	:	Herbicide
Manufacturer	:	DuPont 1007 Market Street Wilmington, DE 19898
Product Information	:	1-800-441-7515 (outside the U.S. 1-302-774-1000)
Medical Emergency	:	1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency	:	CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION!

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes and clothing.

Potential Health Effects

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

Skin : May cause: Irritation with discomfort or rash.

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

Ingestion

**DuPont™ Oust® Extra Herbicide**

Version 2.0

Revision Date 10/31/2011

Ref. 130000029345

Sulfometuron methyl : Effects due to ingestion may include: Red blood cell destruction which could produce tiredness, rapid heartbeat, dizziness, pale skin, leg cramps, shortness of breath, jaundice (yellow tinge to skin and eyes)

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
Sulfometuron methyl	74222-97-2	56.25 %
Metsulfuron methyl	74223-64-6	15 %
Other Ingredients		28.75 %

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.

**DuPont™ Oust® Extra Herbicide**

Version 2.0

Revision Date 10/31/2011

Ref. 130000029345

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

Lower explosion limit : 0.092 g/l

Fire and Explosion Hazard : Not a fire or explosion hazard.

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

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

Firefighting Instructions : Wear full protective clothing and self-contained breathing apparatus. (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. Control Runoff.

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. Use personal protective equipment.

Spill Cleanup : Dike spill. Sweep up and shovel into suitable containers for disposal. For minor spills, leaks, etc., follow all precautions indicated on the label and clean up immediately.

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.

**DuPont™ Oust® Extra Herbicide**

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Revision Date 10/31/2011

Ref. 130000029345

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering controls : When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.
- 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
Chemical resistant gloves made of any waterproof material, such as polyvinyl chloride, nitrile rubber, or butyl rubber
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

Sulfometuron methyl

TLV

(ACGIH)

5 mg/m3

TWA

**DuPont™ Oust® Extra Herbicide**

Version 2.0

Revision Date 10/31/2011

Ref. 130000029345

AEL * (DUPONT) 10 mg/m3 8 & 12 hr. TWA Total dust.

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 : granules
Color : light brown
Odor : slight
pH : 7.2
Density : 0.67 g/ml
Water solubility : dispersible

SECTION 10. STABILITY AND REACTIVITY

Stability : Stable at normal temperatures and storage conditions.
Conditions to avoid : None reasonably foreseeable.
Hazardous decomposition products : Decomposition will not occur.
Hazardous reactions : Polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

DuPont™ Oust® Extra Herbicide
Inhalation 4 h LC50 : > 5.3 mg/l , rat
Dermal LD50 : > 2,000 mg/kg , rabbit

5 / 10

**DuPont™ Oust® Extra Herbicide**

Version 2.0

Revision Date 10/31/2011

Ref. 130000029345

Oral LD50	:	> 5,000 mg/kg , rat
Skin irritation	:	slight irritation, rabbit
Eye irritation	:	slight irritation, rabbit
Sensitisation	:	Did not cause sensitization on laboratory animals., guinea pig
Further information	:	Information given is based on data on the components and the toxicology of similar products.
Sulfometuron methyl Repeated dose toxicity	:	The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions. Oral dog Abnormal decrease in number of red blood cells Oral rat Reduced body weight gain Oral mouse Reduced body weight gain
Carcinogenicity	:	Animal testing did not show any carcinogenic effects.
Mutagenicity	:	Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Reproductive toxicity	:	Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.
Teratogenicity	:	Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

**DuPont™ Oust® Extra Herbicide**

Version 2.0

Revision Date 10/31/2011

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Metsulfuron methyl

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

:

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

Sulfometuron methyl

96 h LC50

:

Oncorhynchus mykiss (rainbow trout) > 148 mg/l

120 h EC50

:

Pseudokirchneriella subcapitata (green algae) 0.0046 mg/l

48 h EC50

:

Daphnia magna (Water flea) > 150 mg/l

Metsulfuron methyl

**DuPont™ Oust® Extra Herbicide**

Version 2.0

Revision Date 10/31/2011

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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 or disposing of equipment washwaters or rinsate. See product label for additional application instructions relating to environmental precautions.

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 : Container Refilling and 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.

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.

SECTION 14. TRANSPORT INFORMATION

IATA_C UN number : 3077

**DuPont™ Oust® Extra Herbicide**

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Revision Date 10/31/2011

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

Not regulated as a hazardous material by DOT.

SECTION 15. REGULATORY INFORMATION

SARA 313 Regulated Chemical(s)	: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
EPA Reg. No.	: 352-622 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.
California Prop. 65	: Chemicals known to the State of California to cause cancer, birth defects or any other harm: none known

SECTION 16. OTHER INFORMATION

NFPA

HMIS

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

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Contact person : DuPont Crop Protection, Wilmington, DE, 19898, Phone: 1-888-638-7668

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