

**DuPont™ Finesse® Herbicide**

Version 2.1

Revision Date 11/04/2010

Ref. 130000028935

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™ Finesse® Herbicide
Tradename/Synonym : FINESSE 75DF
DPX-G8311
B10045536
CHLORSULFURON: 2-Chloro-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)aminocarbonyl]benzenesulfonamide
METSULFURON METHYL: Methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]benzoate

MSDS Number : 130000028935

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!

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling. Avoid breathing dust or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

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: Discomfort, itching, redness, or swelling.

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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

Component	CAS-No.	Concentration
Chlorsulfuron	64902-72-3	62.5 %
Metsulfuron methyl	74223-64-6	12.5 %
Other Ingredients		25 %

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.

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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

Autoignition temperature : 445 °C (833 °F)

Lower explosion limit : 0.212 g/l

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

Firefighting Instructions : In the event of fire, wear self-contained breathing apparatus. Wear full protective equipment.
Use water spray. Runoff from fire control may be a pollution hazard. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated.

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 : Prevent further leakage or spillage. Dike spill. 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.


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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. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- 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

- 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.
IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified for "Applicators and Other Handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.
- Personal protective equipment
 Skin and body protection : Mixers, loaders, applicators and other handlers must wear:
 Long sleeved shirt and long pants
 Chemical resistant gloves made of any waterproof material
 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
 Shoes plus socks
- Protective measures : Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such


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instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Exposure Guidelines
Exposure Limit Values
Chlorsulfuron

AEL *	(DUPONT)	10 mg/m3	8 & 12 hr. TWA	Total dust.
AEL *	(DUPONT)	5 mg/m3	8 & 12 hr. TWA	Respirable dust.

Metsulfuron methyl

AEL *	(DUPONT)	10 mg/m3	8 & 12 hr. TWA
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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	: solid
Color	: off-white
Odor	: odourless
Water solubility	: dispersible

SECTION 10. STABILITY AND REACTIVITY

Stability	: Stable at normal temperatures and storage conditions.
Conditions to avoid	: Under severe dusting conditions, this material may form explosive mixtures in air.
Incompatibility	: None reasonably foreseeable.
Hazardous reactions	: Polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

DuPont™ Finesse® Herbicide	
Dermal LD50	: > 2,000 mg/kg , rabbit

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Oral LD50 : 5,000 mg/kg , rat
 Skin irritation : slight irritation, rabbit
 Eye irritation : Moderate eye irritation, rabbit
 Sensitisation : Causes sensitization., guinea pig

Chlorsulfuron

Inhalation 4 h LC50 : > 5.5 mg/l , rat

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

Inhalation
 rat
 Reduced body weight gain, Kidney effects, Spleen effects, Bloody urine, bone marrow changes

Oral
 rat
 Reduced body weight gain, altered blood chemistry

Oral
 dog
 Abnormal decrease in number of red blood cells

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

A slight increased incidence in tumors was observed in one species, but not in other species.

Target(s):
 Leydig cells

Mutagenicity : Did not cause genetic damage in cultured bacterial cells.

Did not cause genetic damage in animals.

Did not cause genetic damage in cultured mammalian cells.



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Reproductive toxicity : Animal testing showed no reproductive toxicity.

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

Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

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 : 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
Chlorsulfuron


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96 h LC50	:	Oncorhynchus mykiss (rainbow trout) > 122 mg/l
96 h LC50	:	Lepomis macrochirus (Bluegill sunfish) > 128 mg/l
96 h LC50	:	Cyprinodon variegatus (sheepshead minnow) > 980 mg/l
120 h EbC50	:	Pseudokirchneriella subcapitata (green algae) 0.05 mg/l
48 h EC50	:	Daphnia magna (Water flea) > 112 mg/l
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
Toxicity to other organisms		
Chlorsulfuron		
LD50	:	Anas platyrhynchos (Mallard duck) > 5,000 mg/kg Oral
LD50	:	Colinus virginianus (Bobwhite quail) > 5,000 mg/kg Oral
8 d LC50	:	Colinus virginianus (Bobwhite quail) > 5,620 mg/kg Dietary
8 d LC50	:	Anas platyrhynchos (Mallard duck) > 5,620 mg/kg Dietary
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 : Do not contaminate water, food or feed by disposal. Wastes resulting from the


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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.

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

SECTION 14. TRANSPORT INFORMATION

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

Not regulated as a hazardous material by DOT.

SECTION 15. REGULATORY INFORMATION

SARA 313 Regulated Chemical(s) : Chlorsulfuron

Title III hazard classification : Acute Health Hazard: Yes
Chronic Health Hazard: No
Fire: No
Reactivity/Physical hazard: No

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Pressure: No

EPA Reg. No. : 352-445
 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 : WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Chlorsulfuron

SECTION 16. OTHER INFORMATION

	NFPA	HMIS
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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