



DuPont™ Glean® FC Herbicide

Version 2.2

Revision Date 04/27/2009

Ref. 130000032227

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™ Glean® FC Herbicide
 Tradename/Synonym : DuPont Chlorsulfuron 75DF Herbicide
 DPX-W4189 75FC
 B10045566
 CHLORSULFURON (2-Chloro-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)aminocarbonyl]benzenesulfonamide)

MSDS Number : 130000032227
 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.

Potential Health Effects

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

Skin : May cause skin irritation.

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	75 %
Inert Ingredients		25 %

SECTION 4. FIRST AID MEASURES

**DuPont™ Glean® FC Herbicide**

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- Skin contact : Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre 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 centre 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 Direction

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet, (contamination risk)
- Firefighting Instructions : In the event of fire, wear 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. Runoff from fire control may be a pollution hazard. 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) : Wear personal protective equipment.
- Spill Cleanup : Shovel or sweep up. Shovel into suitable container for disposal.
- Accidental Release Measures : Prevent further leakage or spillage. Prevent material from entering sewers, waterways, or low areas.

SECTION 7. HANDLING AND STORAGE



DuPont™ Glean® FC Herbicide

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- Handling (Personnel) : Wash hands before breaks and immediately after handling the product. Remove personal protective equipment immediately after handling this product. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Handling (Physical Aspects) : Keep away from heat and sources of ignition.
- Storage : Store in original container. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

- Skin and body protection : Mixer and loaders must wear:
 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 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.

* 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 : tan
- Odor : odourless
- pH : 4.5

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Density : 0.64 - 0.74 g/ml
Specific Gravity : 0.69 at 25 °C (77 °F)
Water solubility : dispersible

SECTION 10. STABILITY AND REACTIVITY

Stability : Stable at normal temperatures and storage conditions.
Incompatibility : None reasonably foreseeable.

SECTION 11. TOXICOLOGICAL INFORMATION

DuPont™ Glean® FC Herbicide

Dermal LD50 : > 2,000 mg/kg , rabbit

Oral LD50 : > 5,000 mg/kg , rat

Skin irritation : Species: rabbit, slight irritation

Eye irritation : Species: rabbit, slight irritation

Sensitisation : Species: guinea pig, Animal test did not cause sensitization by skin contact.

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.


DuPont™ Glean® FC Herbicide

Version 2.2

Revision Date 04/27/2009

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Did not cause genetic damage in animals.

Did not cause genetic damage in cultured mammalian cells.

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-foetal development at levels equal to or above those causing maternal toxicity.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Chlorsulfuron

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 EC50 : Algae 0.05 ppm

48 h EC50 : Daphnia magna (Water flea) > 112 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 use of this product may be disposed of on site or at an approved waste


DuPont™ Glean® FC Herbicide

Version 2.2

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disposal facility.

Container Disposal : Container Refilling and Disposal:
 Refer to the product label for instructions.
DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.
 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

Not regulated in transportation by DOT/IMO/IATA.

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
 Pressure: No

EPA Reg. No. : 352-522
 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 in 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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