

Material Safety Data Sheet



DuPont™ Telar® DF Herbicide

Version 2.1

Revision Date 04/14/2011

Ref. 130000028934

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™ Telar® DF Herbicide
Tradename/Synonym	:	B10045566 CHLORSULFURON (2-Chloro-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)aminocarbonyl]benzenesulfonamide)
MSDS Number	:	130000028934
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 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

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This section includes potential acute 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

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. 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 : Clean up promptly by scoop or vacuum. Use approved industrial vacuum cleaner for removal. Shovel into suitable container for disposal. If spill area is on ground near valuable plants or trees, remove 5 cm of top soil after initial

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clean-up.

Accidental Release Measures : Prevent material from entering sewers, waterways, or low areas.

SECTION 7. HANDLING AND STORAGE

- Handling (Personnel) : Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Wash hands before breaks and immediately after handling the product.
- 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. Keep out of the reach of children.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering controls : Ensure adequate ventilation.
- 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
- 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

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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.

Talc (Mg₃H₂(SiO₃)₄) (asbestos-free)

TLV (ACGIH) 2 mg/m3 TWA Respirable fraction.

Sucrose

TLV (ACGIH) 10 mg/m3 TWA

Silica gel, precipitated, crystalline-free

AEL * (DUPONT) 3 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, dry, free flowing, water dispersible granules
Color : tan
Odor : none
pH : 4.5
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.



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Incompatibility : None reasonably foreseeable.

SECTION 11. TOXICOLOGICAL INFORMATION

- Dermal LD50 : > 5,000 mg/kg , rat
- Oral LD50 : > 2,000 mg/kg , rat
- Skin irritation : slight irritation, rabbit
- Eye irritation : slight irritation, rabbit
- Sensitisation : Did not cause sensitization on laboratory animals., 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



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- 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.
- 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.

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 EbC50 : Pseudokirchneriella subcapitata (green algae) 0.05 mg/l



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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	:	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.

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SECTION 14. TRANSPORT INFORMATION

Not regulated in transportation by DOT/IMO/IATA.
Not regulated as a hazardous material by TDG.

SECTION 15. REGULATORY INFORMATION

PCP Registration # : 21533
Remarks : Regulated under the Pest Control Products Act - WHMIS exempt.

SECTION 16. OTHER INFORMATION

MSDS preparation date : 04/14/2011

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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



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