Material Safety Data Sheet

**DuPont™ Telar® XP Herbicide**

Version 2.4

Revision Date 06/19/2012 Ref. 130000029428

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**

<table>
<thead>
<tr>
<th>Product name</th>
<th>DuPont™ Telar® XP Herbicide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tradename/Synonym</td>
<td>Chlorsulfuron 75XP</td>
</tr>
<tr>
<td></td>
<td>Chlorsulfuron XP</td>
</tr>
<tr>
<td></td>
<td>DPX-W4189</td>
</tr>
<tr>
<td></td>
<td>Glean XP</td>
</tr>
<tr>
<td></td>
<td>B12810940</td>
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<tr>
<td>MSDS Number</td>
<td>130000029428</td>
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<tr>
<td>Product Use</td>
<td>Herbicide</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>DuPont</td>
</tr>
<tr>
<td></td>
<td>1007 Market Street</td>
</tr>
<tr>
<td></td>
<td>Wilmington, DE 19898</td>
</tr>
<tr>
<td>Product Information</td>
<td>1-800-441-7515 (outside the U.S. 1-302-774-1000)</td>
</tr>
<tr>
<td>Medical Emergency</td>
<td>1-800-441-3637 (outside the U.S. 1-302-774-1139)</td>
</tr>
<tr>
<td>Transport Emergency</td>
<td>CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)</td>
</tr>
</tbody>
</table>

**SECTION 2. HAZARDS IDENTIFICATION**

**Emergency Overview**
**Caution**
Harmful if swallowed. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

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

**Eyes**
Chlorsulfuron : May irritate 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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorsulfuron</td>
<td>64902-72-3</td>
<td>75 %</td>
</tr>
<tr>
<td>Other Ingredients</td>
<td></td>
<td>25 %</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

Skin contact : The material is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable.

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 : Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person.
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

Suitable extinguishing media : Water spray, 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. Use personal protective equipment. (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.

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 : Clean-up methods - small spillage Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean-up methods - large spillage Prevent further leakage or spillage. Use approved industrial vacuum cleaner for removal. Shovel into suitable container for disposal.

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

Handling (Physical Aspects) : Keep away from heat and sources of ignition.

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:
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. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.

Exposure Guidelines:

<table>
<thead>
<tr>
<th>Substance</th>
<th>AEL * (DUPONT)</th>
<th>Duration</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorsulfuron</td>
<td>10 mg/m³</td>
<td>8 &amp; 12 hr. TWA</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td>5 mg/m³</td>
<td>8 &amp; 12 hr. TWA</td>
<td>Respirable dust.</td>
</tr>
</tbody>
</table>

* 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**: beige
- **Odor**: mild
- **pH**: 4.4 - 5.4
- **Bulk density**: 0.58 - 0.70 g/ml
- **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™ Telar® XP Herbicide
Dermal LD50 : > 5,000 mg/kg, rabbit
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

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. Reduced embryo-foetal viability

### SECTION 12. ECOLOGICAL INFORMATION

**Aquatic Toxicity**

**DuPont™ Telar® XP Herbicide**

- 72 h ErC50: Pseudokirchneriella subcapitata (green algae) > 0.24 mg/l
- 72 h EbC50: Pseudokirchneriella subcapitata (green algae) 0.088 mg/l

**Chlorsulfuron**

- 96 h LC50: Oncorhynchus mykiss (rainbow trout) > 122 mg/l
- 48 h EC50: Daphnia magna (Water flea) > 112 mg/l
- 96 h LC50:Americamysis bahia (mysid shrimp) 89 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.

### 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.

SECTION 14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>IATA_C</th>
<th>UN number</th>
<th>3077</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>Environmentally hazardous substance, solid, n.o.s. (Chlorsulfuron)</td>
<td></td>
</tr>
<tr>
<td>Class</td>
<td>9</td>
<td></td>
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<tr>
<td>Packing group</td>
<td>III</td>
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<tr>
<td>Labelling No.</td>
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<tr>
<td>IMDG</td>
<td>UN number</td>
<td>3077</td>
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<tr>
<td>Proper shipping name</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Chlorsulfuron)</td>
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<tr>
<td>Class</td>
<td>9</td>
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<tr>
<td>Packing group</td>
<td>III</td>
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<tr>
<td>Labelling No.</td>
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<tr>
<td>Marine pollutant</td>
<td>yes (Chlorsulfuron)</td>
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</table>

Not regulated as a hazardous material by DOT.

SECTION 15. REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>SARA 313 Regulated Chemical(s)</th>
<th>Chlorsulfuron</th>
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</thead>
<tbody>
<tr>
<td>Title III hazard classification</td>
<td>Acute Health Hazard: Yes</td>
</tr>
<tr>
<td>Chronic Health Hazard: No</td>
<td>8 / 9</td>
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</tbody>
</table>
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Version 2.4

Revision Date 06/19/2012  
Ref. 130000029428

Fire: No  
Reactivity/Physical hazard: No  
Pressure: No

**EPA Reg. No.** : 352-654  
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**

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>1</td>
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<tr>
<td>Flammability</td>
<td>1</td>
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<tr>
<td>Reactivity/Physical hazard</td>
<td>0</td>
</tr>
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</table>

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

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