

**DuPont™ Harmony® SG Herbicide (with TotalSol® soluble granules)**

Version 2.1

Revision Date 02/25/2011

Ref. 130000000398

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™ Harmony® SG Herbicide (with TotalSol® soluble granules)
Tradename/Synonym : DPX-M6316 50SG
Thifensulfuron Methyl 50SG Herbicide
Harmony 50SG
Affinity 1
Harmony X-tra 1 Herbicide
B11646126
THIFENSULFURON METHYL: Methyl 3-[[[(4-methoxy-6-methyl-1,3,5- triazin-2-yl)amino]carbonyl]amino] sulfonyl]-2-thiophenecarboxylate

MSDS Number : 130000000398

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

Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling.

Potential Health Effects

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.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS-No. | Concentration |
|-----------------------|------------|---------------|
| Thifensulfuron methyl | 79277-27-3 | 50 % |
| Other Ingredients | | 50 % |

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 : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.
- 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

- Flammable Properties
- Flash point : not applicable
- Lower explosion limit : 0.1 - 0.25 g/l

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- Fire and Explosion Hazard : Under severe dusting conditions, this material may form explosive mixtures in air.
- Suitable extinguishing media : Water spray, Dry chemical, Foam, 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. Do not allow run-off from fire fighting to enter drains or water courses.

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 : 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. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.
- 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.

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



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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 : 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.

Exposure Guidelines
Exposure Limit Values
 Thifensulfuron methyl
 AEL * (DUPONT) 5 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 | : granules |
| Color | : light brown |
| Odor | : mild |
| pH | : 8.7 - 9.7 |
| Melting point/range | : ca. 182 °C (360 °F) |
| Bulk density | : 0.6 - 0.8 g/ml |
| | Tapped |
| Water solubility | : soluble |

SECTION 10. STABILITY AND REACTIVITY

| | |
|---------------------|---|
| Stability | : Stable at normal temperatures and storage conditions. |
| Conditions to avoid | : None reasonably foreseeable. |
| Incompatibility | : No materials to be especially mentioned. |
| Hazardous reactions | : Polymerization will not occur. |

SECTION 11. TOXICOLOGICAL INFORMATION

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| | | |
|---------------------|------------------------------|---|
| Inhalation 4 h LC50 | : > 5.3 mg/l , rat | Information given is based on data obtained from similar product. |
| Dermal LD50 | : > 2,000 mg/kg , rabbit | |
| Oral LD50 | : > 5,000 mg/kg , rat | |
| Skin irritation | : No skin irritation, rabbit | |
| Eye irritation | : No eye irritation, rabbit | |

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| | | |
|---|---|--|
| Sensitisation | : | Animal test did not cause sensitization by skin contact., guinea pig |
| Thifensulfuron methyl Repeated dose toxicity | : | The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions. Oral - feed multiple species Reduced body weight gain |
| Carcinogenicity | : | Animal testing did not show any carcinogenic effects. |
| Mutagenicity | : | Tests on bacterial or mammalian cell cultures did not show mutagenic effects. |
| Reproductive toxicity | : | Animal testing showed no reproductive toxicity. |
| Teratogenicity | : | Did not show teratogenic effects in animal experiments. Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity. |

SECTION 12. ECOLOGICAL INFORMATION

| | | |
|-----------------------------------|---|---|
| Aquatic Toxicity | | |
| Thifensulfuron methyl | | |
| 96 h LC50 | : | Oncorhynchus mykiss (rainbow trout) 91 mg/l |
| 336 h EC50 | : | Lemna gibba (duckweed) 0.00129 mg/l |
| 48 h EC50 | : | Daphnia magna (Water flea) 250 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. Do not apply where/when conditions favour runoff. |


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

Not regulated as a hazardous material by DOT.

SECTION 15. REGULATORY INFORMATION


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| | | |
|---------------------------------|---|---|
| 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. |
| Title III hazard classification | : | Acute Health Hazard: Yes Chronic Health Hazard: No Fire: No Reactivity/Physical hazard: No Pressure: No |
| EPA Reg. No. | : | 352-633 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 |
|------------------------------|------|------|
| 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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with any other materials or in any process, unless specified in the text.

Significant change from previous version is denoted with a double bar.