



Du Pont
Material Safety Data Sheet

"DuPont" "HARMONY" EXTRA XP HERBICIDE
M0000480 Revised 17-SEP-2008

Substance ID :130000032524

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"HARMONY" is a registered trademark of DuPont.

"DuPont" is a trademark of DuPont.

Tradenames and Synonyms

Harmony Extra XP
B11588950
DPX-R9674 75WG

Company Identification

MANUFACTURER/DISTRIBUTOR
DuPont
1007 Market Street
WILMINGTON, DE 19898

PHONE NUMBERS

Product Information : 1-(800)441-7515
Transport Emergency : CHEMTREC: 1-800-424-9300
Medical Emergency : 1-(800)441-3637 (outside of U.S.
302-774-1000)

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Table with 3 columns: Material, CAS Number, and %. Rows include \*TRIBENURON METHYL, THIFENSULFURON METHYL, and INERT INGREDIENTS.

\* Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

## HAZARDS IDENTIFICATION

-----  
Emergency Overview

CAUTION! Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

## Potential Health Effects

Based on animal data, eye contact may cause eye irritation with discomfort, tearing, or blurring of vision.

Based on animal data, skin contact may cause skin irritation with discomfort or rash.

## Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

-----  
FIRST AID MEASURES-----  
First Aid

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: 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.

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

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

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-441-3637 for emergency medical treatment information.

-----  
FIRE FIGHTING MEASURES-----  
Flammable Properties

**Du Pont**  
**Material Safety Data Sheet**

## TRIBENURON METHYL-

LEL : 0.173 g/l  
Autoignition : 4200C (7880F)

## THIFENSULFURON METHYL-

LEL : 0.25 g/l

## Fire and Explosion Hazards:

Not a fire or explosion hazard.

Like most organic powders or crystals, under severe dusting conditions, this material may form explosive mixtures in air.

## Extinguishing Media

Water Spray, Dry chemical, CO2.

## Fire Fighting Instructions

Wear self-contained breathing apparatus. Runoff from fire control may be a pollution hazard.

If area is exposed to fire and conditions permit, let fire burn itself out. Burning chemicals may produce by-products more toxic than the original material. If product is on fire, wear self-contained breathing apparatus and full protective equipment. Use water spray. Control runoff.

-----  
ACCIDENTAL RELEASE MEASURES  
-----

## Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

EMERGENCY RESPONSE: Chemical resistant coveralls, waterproof boots and face/eye protection. If dusting occurs, use NIOSH approved respirator protection.

## Initial Containment

Follow applicable Federal, State/Provincial and Local laws/regulations.

Dike spill - Prevent material from entering sewers, waterways or low areas.

## Spill Clean Up

Shovel or sweep up.

#### Accidental Release Measures

If spill area is on ground near valuable plants and trees, remove top 2 inches of soil after initial clean up.

---

#### HANDLING AND STORAGE

---

##### Handling (Personnel)

Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Wash clothing after use. Do not store or consume food or drink, or use tobacco, in areas where they may become contaminated with this material.

USERS SHOULD: Wash hands before eating, drinking, chewing, gum, using tobacco or using the toilet.

##### Storage

Store product in original container only. Store in a cool, dry place.

Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

---

#### EXPOSURE CONTROLS/PERSONAL PROTECTION

---

##### Engineering Controls

Use only with adequate ventilation.

##### Personal Protective Equipment

Some materials that are chemical resistant to this product are listed below. If you want more options follow the instructions for Category A on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical Resistant Gloves Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber) all equal to or greater than 14 mils.
- Shoes plus socks.

Follow manufacturer's instructions for cleaning and maintaining personal protective equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Du Pont**  
**Material Safety Data Sheet**

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 Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber) all equal to or greater than 14 mils.
- Shoes plus socks.

#### Exposure Guidelines

##### Applicable Exposure Limits

###### TRIBENURON METHYL

PEL (OSHA) : None Established  
TLV (ACGIH) : None Established  
AEL \* (DuPont) : 1 mg/m<sup>3</sup>, 8 Hr. TWA

###### THIFENSULFURON METHYL

PEL (OSHA) : None Established  
TLV (ACGIH) : None Established  
AEL \* (DuPont) : 5 mg/m<sup>3</sup>, 8 & 12 Hr. TWA

\* 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.

---

#### PHYSICAL AND CHEMICAL PROPERTIES

---

##### Physical Data

Solubility in Water : 0 % Dispersible  
pH : 5.7  
Odor : (slight), Pungent.  
Form : Granular Solid.  
Color : (light), Brown, Tan.  
Density : 0.7 g/mL

---

#### STABILITY AND REACTIVITY

---

##### Chemical Stability

Stable at normal temperatures and storage conditions.

##### Incompatibility with Other Materials

None reasonably foreseeable.

##### Decomposition

Decomposition will not occur.

##### Polymerization

Polymerization will not occur.

---

TOXICOLOGICAL INFORMATION

---

# Animal Data

Data based on components:

Inhalation 4 hour LC50:	> 5.3 mg/L in rats
Ingestion LD50:	> 5000 mg/kg in rats
Dermal LD50:	> 5000 mg/kg in rats

Based on data from components, this product is a moderate eye and skin irritant, but is not a skin sensitizer in animals.

TRIBENURON METHYL

Repeated ingestion of high doses caused body weight loss, increased liver and thyroid/parathyroid weights, altered clinical chemical parameters, but no significant gross or microscopic treatment related effects were noted. Long-term dosing caused body weight loss, alteration in clinical chemical parameters, and testicular atrophy (considered to be biologically insignificant).

Tribenuron Methyl produced an increased incidence of mammary tumors in female rats at dose levels also producing other significant effects. Developmental effects occurred in the rat, but only at a dose also toxic to the dam. No reproductive effects were observed in rats. Tribenuron Methyl did not produce genetic damage in bacterial or mammalian cell cultures or in animals.

THIFENSULFURON METHYL

Repeated ingestion exposures to Thifensulfuron Methyl caused decreased body weight and organ weight changes, and some blood chemistry changes, including increased blood urea nitrogen and decreased protein and globulins. Long-term exposures caused an increase in liver weights, decreased body weight gain, and a decreased level of sodium in the blood when compared to the control group.

No carcinogenic effects were observed in animal tests with Thifensulfuron Methyl. Animal data show developmental effects only at exposure levels producing toxic effects in the adult animal. Tests in animals demonstrate no reproductive toxicity. Thifensulfuron Methyl does not produce genetic damage in bacterial or mammalian cell

cultures or animals.

---

ECOLOGICAL INFORMATION

---

# Ecotoxicological Information

## AQUATIC TOXICITY:

## TRIBENURON METHYL

96 hour LC50 - Rainbow trout: &gt; 1000 mg/L.

Very low to low toxicity.

120 hour, EC50, Freshwater algae: 2.6 - 13.1 mg/L.

## AVIAN TOXICITY:

## TRIBENURON METHYL

Acute Oral LD50 - Bobwhite Quail: &gt; 2250 mg/kg.

Acute Dietary LC50 - Bobwhite Quail: &gt; 5620 ppm.

Acute Dietary LC50 - Mallard Duck: &gt; 5620 ppm.

## AQUATIC TOXICITY:

## THIFENSULFURON METHYL

96 hour LC50 - Rainbow trout: &gt; 100 mg/L.

96 hour LC50 - Bluegill sunfish: &gt; 100 mg/L.

96 hour EC50 - Freshwater algae: 0.840 - 1.03 mg/L.

## AVIAN TOXICITY:

Acute Oral LD50 - Mallard Duck: &gt; 2510 mg/kg.

Acute Dietary LC50 - Mallard Duck: &gt; 5620 mg/kg.

Acute Dietary LC50 - Bobwhite Quail: &gt; 5620 mg/kg

---

DISPOSAL CONSIDERATIONS

---

## Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

Do not flush to surface water or sanitary sewer system.

Do not contaminate water, food, or feed by storage or disposal. Waste resulting from the use of this product may be disposed of on the site or at an approved waste disposal facility.

## 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.

## Container Disposal

For Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Du Pont**  
**Material Safety Data Sheet**

For Fiber Sacks: Completely empty fiber sack by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into manufacturing or application equipment. Then dispose of sack in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Container Refilling and Disposal (For Containers up to 250 gal): This is a refillable container. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. Reseal and return the container to any authorized DuPont refilling facility. If the container is not to be refilled, triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke.

For minor spills, leaks, etc., follow all precautions indicated on the product label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-800-441-3637 day or night.

Container Disposal for Bulk Containers: When this container is empty, replace the cap and seal all openings that have been opened during use, and return the container to the point of purchase or to a designated location named at time of purchase of this product. The container must only be refilled with this pesticide product. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transporting. Do not transport if this container is damaged or leaking. If the container is damaged, leaking or obsolete, contact DuPont at 1-800-441-3637. If not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling. Disposal of this container must be in compliance with State and local regulations.

For minor spills, leaks, etc., follow all precautions indicated on the product label and clean up immediately. Take special care to avoid contamination of equipment and

facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-800-441-3637 day or night.

-----  
TRANSPORTATION INFORMATION  
-----



**Du Pont**  
**Material Safety Data Sheet**

## Shipping Information

DOT  
Proper Shipping Name : AGRICULTURAL HERBICIDE, SOLID  
NOT REGULATED

-----  
REGULATORY INFORMATION  
-----

## U.S. Federal Regulations

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes  
Chronic : No  
Fire : No  
Reactivity : No

In the United States this product is regulated by the US Environmental Protection Agency under the Federal Insecticide, Fungicide and Rodenticide Act. It is a violation of federal law to use this product in a manner inconsistent with its labeling.

EPA Reg. No. 352-611

-----  
OTHER INFORMATION  
-----

## NFPA, NPCA-HMIS

NFPA Rating  
Health : 1  
Flammability : 1  
Reactivity : 0

NPCA-HMIS Rating  
Health : 1  
Flammability : 1  
Reactivity : 0

-----  
The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS: DuPont Crop Protection

(Continued)

Address : Wilmington, DE 19898  
Telephone : 1-888-638-7668

# Indicates updated section.