

**DuPont™ Ally® Extra Herbicide**

Version 2.2

Revision Date 11/29/2010

Ref. 130000029267

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™ Ally® Extra Herbicide
Tradename/Synonym : DPX-MU316 PX Blend
B11497940
THIFENSULFURON METHYL (Methyl 3-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-2-thiophenecarboxylate)
TRIBENURON METHYL (Methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)methylamino]carbonyl]-amino]sulfonyl]benzoate)
METSULFURON METHYL (Methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-amino]sulfonyl]benzoate)

MSDS Number : 130000029267

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 hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

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: Irritation with discomfort or rash.

Eyes : May cause: Eye irritation, Discomfort, tearing, Blurred vision.

Carcinogenicity Material	IARC	NTP	OSHA
Titanium dioxide	2B		

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Thifensulfuron methyl	79277-27-3	37.5 %
Tribenuron methyl	101200-48-0	18.75 %
Metsulfuron methyl	74223-64-6	15 %
Inert Ingredients		28.75 %

Present as an impurity in the clay component of this product:

Titanium Dioxide		<1 %
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SECTION 4. FIRST AID MEASURES

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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 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.
- 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 : 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. 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. Wear suitable protective equipment.



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- Spill Cleanup : Sweep up and shovel into suitable containers for disposal.
If spill area is on ground near valuable plants or trees, remove 5 cm of top soil after initial clean-up.
For minor spills, leaks, etc., follow all precautions indicated on the label and clean up immediately.
- Accidental Release Measures : Do not allow material to contaminate ground water system. 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.
- Storage : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. 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 : 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 greater than or equal to 14 mils
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, Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils
Shoes plus socks


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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

Tribenuron methyl

AEL * (DUPONT) 1 mg/m3 8 hr. TWA

Metsulfuron methyl

AEL * (DUPONT) 10 mg/m3 8 & 12 hr. TWA

Titanium dioxide

PEL: (OSHA) 15 mg/m3 8 hr. TWA Total dust.

TLV (ACGIH) 10 mg/m3 TWA

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, granules
 Color : tan, beige
 Odor : mild, sweet, lignin like
 pH : 5.2
 Bulk density : 0.70 g/ml
 Tapped

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SECTION 10. STABILITY AND REACTIVITY

- Stability : Stable at normal temperatures and storage conditions.
- Incompatibility : No materials to be especially mentioned.

SECTION 11. TOXICOLOGICAL INFORMATION

- DuPont™ Ally® Extra Herbicide
- Inhalation 4 h LC50 : > 5.3 mg/l , rat
Components influencing toxicology
- Dermal LD50 Dermal : > 2,000 mg/kg , rabbit
Components influencing toxicology
- Oral LD50 : > 5,000 mg/kg , rat
- Skin irritation : slight irritation, rabbit
- Eye irritation : slight irritation, rabbit
- Sensitisation : Causes sensitization., guinea pig
Active ingredient
- 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.



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- 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.
- Tribenuron methyl
Repeated dose toxicity : The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

 - Oral
Adverse body weight effects, altered blood chemistry
- Carcinogenicity : An increased incidence of tumours was observed in laboratory animals.

 - Target(s):
Mammary glands
- Mutagenicity : Did not cause genetic damage in cultured bacterial cells.
Did not cause genetic damage in cultured mammalian cells.
Did not cause genetic damage in animals.
- Reproductive toxicity : Animal testing showed no reproductive toxicity.
- Teratogenicity : Animal testing showed effects on embryo-foetal development at levels below those causing maternal toxicity.
- Metsulfuron methyl
Repeated dose toxicity : The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

 - Oral
rat
Reduced body weight gain, Organ weight changes, Liver
 - Dermal
rabbit
Skin irritation
- Carcinogenicity : Did not show carcinogenic effects in animal experiments.


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Mutagenicity	:	Did not show mutagenic effects in animal experiments. Did not cause genetic damage in cultured bacterial cells. Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others.
Reproductive toxicity	:	Animal testing did not show any effects on fertility.
Teratogenicity	:	Animal testing showed no developmental toxicity.
Titanium Dioxide Carcinogenicity	:	Based upon all available study results, DuPont scientists conclude that titanium dioxide will not cause lung cancer or chronic respiratory diseases in humans at concentrations experienced in the workplace.

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
Tribenuron methyl		
96 h LC50	:	Oncorhynchus mykiss (rainbow trout) 738 mg/l
14 d EC50	:	Lemna gibba (duckweed) 0.00424 mg/l
120 h EC50	:	Pseudokirchneriella subcapitata 0.0208 mg/l
48 h EC50	:	Daphnia magna (Water flea) > 894 mg/l
Metsulfuron methyl		
96 h LC50	:	Oncorhynchus mykiss (rainbow trout) > 150 mg/l
72 h EC50	:	Anabaena flos-aquae (cyanobacteria) 0.066 mg/l
14 d EC50	:	Lemna minor 0.00036 mg/l


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48 h EC50	:	Daphnia magna (Water flea) > 120 mg/l
Toxicity to other organisms		
Thifensulfuron methyl LD50	:	Anas platyrhynchos (Mallard duck) > 2,510 mg/kg
8 d LC50	:	Anas platyrhynchos (Mallard duck) > 5,620 mg/kg
8 d LC50	:	Colinus virginianus (Bobwhite quail) > 5,620 mg/kg
Metsulfuron methyl LD50	:	Anas platyrhynchos (Mallard duck) > 2,510 mg/kg
LC50	:	Colinus virginianus (Bobwhite quail) > 5,620 mg/kg
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	:	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

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

Not regulated as a hazardous material by DOT.

SECTION 15. REGULATORY INFORMATION

SARA 313 Regulated Chemical(s) : Tribenuron methyl

Title III hazard classification : Acute Health Hazard: Yes
Chronic Health Hazard: No
Fire: No
Reactivity/Physical hazard: No
Pressure: No

EPA Reg. No. : 352-610
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.

SECTION 16. OTHER INFORMATION



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	NFPA	HMIS
Health :	2	2
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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