



DuPont™ Affinity® Tankmix Herbicide

Version 2.0

Revision Date 02/12/2010

Ref. 130000015716

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™ Affinity® Tankmix Herbicide
Tradename/Synonym	:	DPX-JMQ48 50SG B11984502 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)
MSDS Number	:	130000015716
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)
Other information	:	professional use

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Caution

Avoid contact with skin, eyes and clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling.

Potential Health Effects

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., May cause allergic skin reaction..

Eyes : May cause: Irritation with discomfort, pain, redness, or visual impairment.

Inhalation

Thifensulfuron methyl : May cause: Respiratory irritation, Discomfort, Cough.

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	40 %
Tribenuron methyl	101200-48-0	10 %
Inert 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
Lower explosion limit : 0.1 - 0.25 g/l
- 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. (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.

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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.

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.

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. Follow applicable Federal, State/Provincial and Local laws/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 the outside of gloves before removing. Wash thoroughly and put on clean clothing.

Handling (Physical Aspects) : Dust may form explosive mixture in air. 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. Keep tightly closed in a dry, cool and well-ventilated 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:


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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

Tribenuron methyl

AEL * (DUPONT) 1 mg/m3 8 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : granular
Color : light brown
Odor : slight
pH : 8.2 - 9.2
Water solubility : soluble

SECTION 10. STABILITY AND REACTIVITY

Stability : Stable at normal temperatures and storage conditions.
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 : > 6.0 mg/l , rat

Dermal LD50 Dermal : > 5,000 mg/kg , rat

Oral LD50 Oral : > 5,000 mg/kg , rat

Skin irritation : Species: rat, No skin irritation

Eye irritation : Species: rat, No eye irritation



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Sensitisation Further information Thifensulfuron methyl Repeated dose toxicity	: Species: guinea pig, Causes sensitization. : Components influencing toxicology : 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-foetal 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.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity Thifensulfuron methyl 96 h LC50	: Oncorhynchus mykiss (rainbow trout) > 100 mg/l
96 h LC50	: Lepomis macrochirus (Bluegill sunfish) > 100 mg/l


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72 h EbC50	:	Pseudokirchneriella subcapitata (green algae) 14.5 mg/l
336 h EC50	:	Lemna gibba (duckweed) 0.0016 mg/l
96 h EC50	:	Anabaena flos-aquae (cyanobacteria) 0.840 mg/l
48 h EC50	:	Daphnia magna (Water flea) > 970 mg/l
Tribenuron methyl 96 h LC50	:	Oncorhynchus mykiss (rainbow trout) > 1,000 mg/l
120 h EC50	:	Scenedesmus capricornutum (fresh water algae) 2.6 - 13.1 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
Tribenuron methyl LD50	:	Colinus virginianus (Bobwhite quail) > 2,250 mg/kg Oral
5 d LC50	:	Colinus virginianus (Bobwhite quail) > 5,620 ppm Dietary
5 d LC50	:	Anas platyrhynchos (Mallard duck) > 5,620 ppm 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. Do not apply where/when conditions favour runoff.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal	:	Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
Container Disposal	:	Refer to the product label for instructions. Container Refilling and Disposal: The container must only be refilled with this pesticide product. DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Do not transport if this container is damaged or leaking.


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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, Tribenuron methyl)
	Class	: 9
	Packaging group	: III
	Labelling No.	: 9MI
IMDG	UN-Number	: 3077
	Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Thifensulfuron-methyl, Tribenuron methyl)
	Class	: 9
	Packaging group	: III
	Labelling No.	: 9

Marine pollutant

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. : 352-641
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

	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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