

DuPont[™] Affinity[®] BroadSpec Herbicide (with TotalSol[®] soluble granules)

Version 2.0

Revision Date 02/12/2010 Ref. 130000029329

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[®] BroadSpec Herbicide (with TotalSol[®] soluble granules)

Tradename/Synonym : PP2525

Affinity GBF92 DPX-GBF92 50SG DPX-GBF92 SG Blend

HE R11 B12014143

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-I,3,5-triazin- 2-

yl)methylamino]carbonyl]- amino]sulfonyl] benzoate)

MSDS Number : 130000029329

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. 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	25 %
Tribenuron methyl	101200-48-0	25 %
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 - 0.23 g/l

Suitable extinguishing media : Water spray, Dry chemical, Foam, Carbon dioxide (CO2)

Unsuitable extinguishing

media

: High volume water jet, (contamination risk)

Firefighting Instructions : In the event of fire, wear self-contained breathing apparatus. Wear full

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.



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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 : Shovel or sweep up. Avoid dust formation. Dispose of in an approved

container.

Accidental Release Measures : 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.

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

conditions, this material may form explosive mixtures in air.

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

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 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. All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated.

Exposure Guidelines
Exposure Limit Values
Tribenuron methyl



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

Thifensulfuron methyl

AEL * (DUPONT) 5 mg/m3 8 & 12 hr. TWA

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : solid, granular
Color : light brown
Odor : slight
pH : 8.6 - 9.4

Melting point/range : Not available for this mixture.

Oxidizing : The product is not oxidizing.

Density : 0.65 - 0.73 g/ml at 22 ℃ (72 °F)

Water solubility : soluble

SECTION 10. STABILITY AND REACTIVITY

Stability : Stable at normal temperatures and storage conditions.

Incompatibility : No materials to be especially mentioned.

SECTION 11. TOXICOLOGICAL INFORMATION

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Inhalation 4 h $\,$ LC50 $\,$: $\,$ > 6.0 mg/l , rat

Active ingredient

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

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

Skin irritation : Species: rat, No skin irritation Eye irritation : Species: rabbit, No eye irritation

Sensitisation : Species: guinea pig, Causes sensitization.

Further information : Information given is based on data on the components and the

toxicology of similar products.

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

^{*} 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.



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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

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



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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.

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 : Container Refilling and Disposal:

Refer to the product label for instructions.

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.

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

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Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(Tribenuron methyl, Thifensulfuron-methyl)

Class : 9
Packaging group : III
Labelling No. : 9MI
UN-Number : 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(Tribenuron methyl, Thifensulfuron-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 : Acute Health Hazard: Yes classification : Chronic Health Hazard: No

Fire: No

Reactivity/Physical hazard: No

Pressure: No

EPA Reg. No. : 352-661

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

MSDS preparation date : 02/12/2010

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

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information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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