

Version 2.0

Revision Date 05/21/2015 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<sup>™</sup> Affinity<sup>®</sup> BroadSpec Herbicide (with TotalSol<sup>®</sup> 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)

Product Use : Herbicide

Restrictions on use :

Do not use product for anything outside of the above specified uses

Manufacturer/Supplier : DuPont

4417 Lancaster Pike

Wilmington, DE 19805, USA

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**

Product hazard category

Skin sensitisation Category 1



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Label content

Pictogram :



Signal word : Warning

Hazardous warnings : May cause an allergic skin reaction.

Hazardous prevention

measures

: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/ attention.

Wash contaminated clothing before reuse.

Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 37.51 %

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	Concentration
Tribenuron methyl	101200-48-0	25.61 %
Sodium carbonate	497-19-8	10 - 15 %



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Thifensulfuron methyl	79277-27-3	25 %
Trisodium phosphate dodecahydrate	10101-89-0	5 - 10 %
Other Ingredients		24.39 - 34.39 %
		,,

### **SECTION 4. FIRST AID MEASURES**

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.

Inhalation : Move to fresh air. If person is not breathing, call 911 or an ambulance, then

give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison

control center or doctor for treatment advice.

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.

Ingestion : No specific intervention is indicated as the compound is not likely to be

hazardous. Consult a physician if necessary.

Most important

symptoms/effects, acute

and delayed

Protection of first-aiders
Notes to physician

: No applicable data available.

No applicable data available.No applicable data available.

### SECTION 5. FIREFIGHTING MEASURES



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

Unsuitable extinguishing

media

: High volume water jet, (contamination risk)

Specific hazards : No applicable data available.

Special protective equipment

for firefighters

: Wear full protective equipment.

Further information : (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.

Environmental precautions : Prevent material from entering sewers, waterways, or low areas.

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.



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Dust explosion class : No applicable data available.

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.

Storage period : No applicable data available.

Storage temperature : No applicable data available.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : Tractor / sprayer without hood: Half mask with a particle filter P1 (EN 143).

Backpack / knapsack sprayer: Half mask with a particle filter P1 (EN 143). Mechanical automatized spray application in closed tunnel: No personal

respiratory protective equipment normally required.

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

AEL \* (DUPONT) 0.5 mg/m3 12 hr. TWA AEL \* (DUPONT) 1 mg/m3 8 hr. TWA



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Sodium carbonate

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

Thifensulfuron methyl

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

Trisodium phosphate dodecahydrate No applicable data available.

Other Ingredients

No applicable data available.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : solid

Form : solid, granular Color : light brown

Odor : slight

Odor threshold : not determined

pH : 8.6 - 9.4

Melting point/freezing point : Melting point/range

Not available for this mixture.

Boiling point/boiling range : Boiling point/boiling range

Not applicable

Flash point : No applicable data available.

<sup>\*</sup> 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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Evaporation rate : No applicable data available.

Flammability (solid, gas) : Does not sustain combustion.

Upper explosion limit : No applicable data available.

Lower explosion limit : 0.1 - 0.23 g/l

Vapor pressure : Not available for this mixture.

Vapor density : Not available for this mixture.

Density : at 22 °C (72 °F)

Specific gravity (Relative

density)

: No applicable data available.

Water solubility : soluble

Solubility(ies) : No applicable data available.

Partition coefficient: n-

octanol/water

: Not applicable

Auto-ignition temperature : 387 °C

Auto-ignition temperature

Decomposition temperature : No applicable data available.

Viscosity, kinematic : No applicable data available.

Viscosity, dynamic : Not applicable

Phys-chem data : No other data to be specially mentioned.

Oxidising Substance : The product is not oxidizing.

### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No hazards to be specially mentioned.

Chemical stability : The product is chemically stable under recommended conditions of storage,

use and temperature.

Stable at normal temperatures and storage conditions.



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Possibility of hazardous

reactions

: No applicable data available.

Conditions to avoid : No applicable data available.

Incompatible materials : No materials to be especially mentioned.

Hazardous decomposition

products

Hazardous combustion products: Carbon dioxide (CO2), Nitrogen oxides

(NOx)

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

DuPont<sup>™</sup> Affinity<sup>®</sup> BroadSpec Herbicide (with TotalSol<sup>®</sup> soluble granules)

Inhalation 4 h LC50 : > 5.5 mg/l, Rat

Dermal Acute toxicity

estimate

Oral Acute toxicity estimate : > 5,000 mg/kg , Rat

Skin irritation : No skin irritation, Rat

Eye irritation : No eye irritation, Rabbit

Sensitisation : May cause sensitisation by skin contact., Guinea pig

: > 5,000 mg/kg , Rat

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

toxicology of similar products.

Tribenuron methyl

Repeated dose toxicity

The following effects occurred at levels of exposure that significantly

exceed those expected under labeled usage conditions.

Oral - feed Mouse - 90 d

NOAEL: 500 mg/kg Reduced body weight gain

Oral Rat - 28 d

Reduced body weight gain

Carcinogenicity : Not classifiable as a human carcinogen.



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An increased incidence of tumours was observed in laboratory

animals.
Target(s):

Mammary glands

Mutagenicity : Animal testing did not show any mutagenic effects.

Tests on bacterial or mammalian cell cultures did not show mutagenic

effects.

Reproductive toxicity : No toxicity to reproduction

Sodium carbonate

Repeated dose toxicity : Inhalation

Rat

-

Respiratory tract irritation

Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic

effects.

Evidence suggests this substance does not cause genetic damage in

animals.

Reproductive toxicity : Animal testing showed no reproductive toxicity.

Teratogenicity : Animal testing showed no developmental toxicity.

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

Animal testing did not show any mutagenic effects.

Reproductive toxicity : No toxicity to reproduction

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.

### Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

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.

### **SECTION 12. ECOLOGICAL INFORMATION**

Aquatic Toxicity
Tribenuron methyl

96 h LC50 : Oncorhynchus mykiss (rainbow trout) 738 mg/l

120 h EC50 : Pseudokirchneriella subcapitata (microalgae) 0.0208 mg/l

14 d EC50 : Lemna gibba (duckweed) 0.00424 mg/l

48 h EC50 : Daphnia magna (Water flea) > 894 mg/l

Sodium carbonate

96 h LC50 : Lepomis macrochirus (Bluegill sunfish) 300 mg/l

48 h LC50 : Ceriodaphnia dubia (water flea) 200 - 227 mg/l

4 d : EC50 Daphnia magna (Water flea) 228 - 297 mg/l

Thifensulfuron methyl

96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 100 mg/l

14 d EC50 : Lemna minor (duckweed) 0.0013 mg/l

48 h EC50 : Daphnia magna (Water flea) 470 mg/l

28 d : NOEC Americamysis bahia (mysid shrimp) 7.93 mg/l



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Trisodium phosphate dodecahydrate

96 h EC50 : Gambusia affinis (Mosquito fish) 151 mg/l

96 h EC50 : Daphnia magna (Water flea) 126 mg/l

**Environmental Fate** 

Sodium carbonate

Biodegradability : The methods for determining biodegradability are not applicable to

inorganic substances.

Bioaccumulation : Does not bioaccumulate.

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 methods -

Product

: 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.

Waste disposal methods -

Container

: 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.

Contaminated packaging : No applicable data available.

#### 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
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)

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA special provision A197, and ADR/RID special provision 375.

#### SECTION 15. REGULATORY INFORMATION

Other regulations : This Safety Data Sheet is for a pesticide product registered by the US

Environmental Protection Agency (USEPA) and is therefore also subject to certain labeling requirements under US pesticide law (FIFRA). These requirements differ from the classification criteria and hazard information required by OSHA for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the mandatory hazard information

required by USEPA on the pesticide label:

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.

SARA 313 Regulated

Chemical(s)

: Tribenuron methyl

Title III hazard : Acute Health Hazard: Yes



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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

Health : 1

Flammability : 1

Reactivity/Physical hazard : 0

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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.

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