



The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

DuPont  
Material Safety Data Sheet

Page 1

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"DuPont" "Agility" SG Herbicide (with "TotalSol" soluble granules)  
M0000699 Revised 31-AUG-2007  
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CHEMICAL PRODUCT/COMPANY IDENTIFICATION  
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Material Identification

"TotalSol" is a registered trademark of DuPont.

"DuPont", "Agility" are trademarks of DuPont.

Tradenames and Synonyms

DPX-QDT96

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont  
1007 Market Street  
Wilmington, DE 19898

PHONE NUMBERS

Product Information : 1-800-441-7515 (outside the U.S.  
302-774-1000)  
Transport Emergency : CHEMTREC 1-800-424-9300(outside U.S.  
703-527-3887)  
Medical Emergency : 1-800-441-3637 (outside the U.S.  
302-774-1000)

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COMPOSITION/INFORMATION ON INGREDIENTS  
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Components

Material	CAS Number	%
*SODIUM SALT OF DICAMBA	1982-69-0	63.6
THIFENSULFURON METHYL:	79277-27-3	4.7
Methyl 3-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]-sulfonyl]-2-thiophenecarboxylate		
*TRIBENURON METHYL:	101200-48-0	2.4
Methyl 2-[[[N-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)methylamino]carbonyl]amino]-sulfonyl]benzoate		
METSULFURON METHYL:	74223-64-6	1.9
Methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]-sulfonyl]benzoate		
INERT INGREDIENTS		27.4

\* 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.

## (COMPOSITION/INFORMATION ON INGREDIENTS - Continued)

## Components (Remarks)

\*This product contains 57.8% 3,6-dichloro-2-Methoxybenzoic acid (dicamba)

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HAZARDS IDENTIFICATION  
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## Emergency Overview

WARNING! Causes substantial but temporary eye injury. Do not get in eyes, on skin, or on clothing. Harmful if swallowed or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

## 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 mild skin irritation with discomfort or rash.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

## 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.

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FIRST AID MEASURES  
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## First Aid

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 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 SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass

## (FIRST AID MEASURES - Continued)

of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. 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.

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FIRE FIGHTING MEASURES  
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## Flammable Properties

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, Foam, Dry Chemical, CO2.

## Fire Fighting Instructions

Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment. Runoff from fire control may be a pollution hazard.

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ACCIDENTAL RELEASE MEASURES  
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## Safeguards (Personnel)

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

Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus.

## Initial Containment

Prevent material from entering sewers, waterways, or low areas.

## Spill Clean Up

Shovel or sweep up. Do not allow to contaminate ground or surface water systems.

## (ACCIDENTAL RELEASE MEASURES - Continued)

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

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HANDLING AND STORAGE  
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## Handling (Personnel)

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## Storage

Do not contaminate water, food or feed by storage or disposal. Store product in original container only.

Keep out of reach of children.

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EXPOSURE CONTROLS/PERSONAL PROTECTION  
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## Engineering Controls

Use only with adequate ventilation.

Refer to the product label.

## Personal Protective Equipment

Always follow the label instructions when handling this product.

Some of the 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.

Protective Eyewear.

## (EXPOSURE CONTROLS/PERSONAL PROTECTION - Continued)

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Personal protective equipment 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 worn over short-sleeve shirt and short pants.

Chemical-resistant footwear plus socks.

Chemical resistant gloves, Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all equal to or greater than 14 mils.

Chemical-resistant headgear for overhead exposure.

Protective eyewear.

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated area.

Only protected handlers may be in the area during application.

## Exposure Guidelines

## Applicable Exposure Limits

## THIFENSULFURON METHYL:

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

## TRIBENURON METHYL:

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

## METSULFURON METHYL:

PEL (OSHA) : None Established  
TLV (ACGIH) : None Established  
AEL \* (DuPont) : 10 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.

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PHYSICAL AND CHEMICAL PROPERTIES  
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## Physical Data

Odor : Faint, semi-sweet  
Form : Solid Granules  
Color : Brown and light brown granular blend  
pH : 7.5-8.6  
Density : 0.74-0.79 g/mL

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STABILITY AND REACTIVITY  
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## Chemical Stability

Stable at normal temperatures and storage conditions.

## Incompatibility with Other Materials

None reasonably foreseeable.

## Decomposition

Decomposes slowly in water.

## Polymerization

Polymerization will not occur.

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TOXICOLOGICAL INFORMATION  
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## Animal Data

Oral LD50: > 2062 mg/kg in rats  
Dermal LD50: > 2000 mg/kg in rabbits  
4-Hour Inhalation LC50: > 5.0 mg/L in rats

Based on component data, Agility SG is an eye irritant and a skin sensitizer, but not a skin irritant in animals.

## DICAMBA

Repeated dietary exposures to laboratory animals resulted in reduced food consumption and lower body weights. At higher exposures increased liver weights and clinical indications of toxicity were observed, which included impaired gait, tense/stiff body tone upon handling, and slower movements.

Dicamba was neither genotoxic or carcinogenic. It was not a reproductive toxin in adults, but resulted in decreased body weights in male and female offspring and delayed sexual maturation in males at higher exposure levels. Developmental effects were observed only at exposures that were also toxic to the dam.

## (TOXICOLOGICAL INFORMATION - Continued)

## 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.

## TRIBENURON METHYL

Repeated ingestion of high doses of Tribenuron Methyl 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.

## METSULFURON METHYL

Repeated applications of Metsulfuron Methyl to the skin of rabbits caused skin irritation but no other changes were observed.

Repeated oral dosing produced decreased body weight gain and decreased liver weights when compared to the control group. Long term administration caused body weight loss.

Animal testing indicates that Metsulfuron Methyl does not have carcinogenic, developmental, or reproductive effects.

There is a report indicating that Metsulfuron Methyl produced genetic damage in a mammalian cell culture test; however, other tests with Metsulfuron Methyl in bacterial and mammalian cell cultures and in animals did not produce genetic damage. The weight of evidence suggests that Metsulfuron Methyl does not cause genetic damage.

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ECOLOGICAL INFORMATION  
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## Ecotoxicological Information

## AQUATIC TOXICITY:

## TRIBENURON METHYL:

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

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.

## AQUATIC TOXICITY:

## METSULFURON METHYL:

96 hour LC50 - Rainbow trout: &gt; 150 ppm.

96 hour LC50 - Bluegill sunfish: &gt; 150 ppm.

## AVIAN TOXICITY:

## METSULFURON METHYL:

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

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

## AQUATIC TOXICITY:

## DICAMBA:

96-hour LC50 (Bluegill Sunfish): &gt; 1000 mg/L

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

48-hour EC50 (Daphnia magna): 1600 mg/L

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DISPOSAL CONSIDERATIONS  
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## Waste Disposal

Do not contaminate water supply, food or feed by storage or disposal.

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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

## (DISPOSAL CONSIDERATIONS - Continued)

## ENVIRONMENTAL HAZARDS

Keep out of lakes, streams, or ponds. For terrestrial uses, 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.

Refer to the product label for additional application instructions relating to Environmental precautions.

## 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.

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): REFER TO THE PRODUCT LABEL FOR INSTRUCTIONS.

If refilled, do not rinse with any material or introduce any pesticide other than this product.

Container Disposal for Bulk Containers: 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 the container is damaged or leaking.

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

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TRANSPORTATION INFORMATION  
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## Shipping Information

DOT : Not Regulated by 49 CFR (DOT) unless a single package contains 1,000 or more lbs. Dicamba; describe as follows: UN 3077, Environmentally hazardous substances, solid, n.o.s., (Dicamba), 9,PG III, RQ

IMO/IMDG: Not Regulated by IMO/IMDG

IATA : Not regulated by IATA

ADDITIONAL INFORMATION: Although material is not regulated by the DOT/IMO/IATA, it may be transported as a class 9 (UN 3077) under special provision SP146 (DOT), 909 (IMDG) or A97 (IATA). The following description would apply using any one of the aforementioned special provisions:

UN 3077, Environmentally hazardous substances, solid, n.o.s., (Thifensulfuron Methyl, Tribenuron Methyl), 9, PG III

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REGULATORY INFORMATION  
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## U.S. Federal Regulations

## TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes  
Chronic : No  
Fire : No  
Reactivity : No  
Pressure : 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. 352-751

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OTHER INFORMATION  
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## NFPA, NPCA-HMIS

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

(Continued)

Personal Protection rating to be supplied by user depending on use conditions.

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

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS