

**BARRICADE SG**

Version 2.0

Revision Date 02/16/2016

Ref. 130000139548

This SDS adheres to the standards and regulatory requirements of Canada and may not meet the regulatory requirements in other countries.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : BARRICADE SG  
Tradename/Synonym : 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)

SDS Number : 130000139548

Product Use : Herbicide  
Manufacturer : E.I. du Pont Canada Company  
P.O. Box 2200, Streetsville  
Mississauga, ON  
L5M 2H3  
Canada

Product Information : 1-800-387-2122  
Medical Emergency : 1-800-441-3637 (24 hours)

**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..

## Inhalation

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

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**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.

Tribenuron methyl : DuPont has classified this material as a probable human carcinogen.

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

| Component             | CAS-No.     | Concentration |
|-----------------------|-------------|---------------|
| Thifensulfuron methyl | 79277-27-3  | 25 %          |
| Tribenuron methyl     | 101200-48-0 | 25 %          |
| Other 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 : 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.
- Ingestion : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.

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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. FIREFIGHTING MEASURES**

## Flammable Properties

Auto-ignition temperature : 387 °C (729 °F)

Lower explosion limit/ lower flammability limit : 0.1 - 0.23 g/l

Suitable extinguishing media : Water spray, Dry chemical, Foam, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : High volume water jet, (contamination risk)

Firefighting Instructions : 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.

**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.

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

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.

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**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.
- Storage temperature : < 35 °C (< 95 °F)

**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



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### Exposure Limit Values

|                                |          |           |                            |
|--------------------------------|----------|-----------|----------------------------|
| Tribenuron methyl<br>AEL *     | (DUPONT) | 0.5 mg/m3 | 12 hr. TWA                 |
| AEL *                          | (DUPONT) | 1 mg/m3   | 8 hr. TWA                  |
| Thifensulfuron methyl<br>AEL * | (DUPONT) | 5 mg/m3   | 8 & 12 hr. TWA Total 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, granular                          |
| Color                                  | : light brown                              |
| Odor                                   | : slight                                   |
| pH                                     | : 8.6 - 9.4                                |
| Melting point/range                    | : Not available for this mixture.          |
| Boiling point/boiling range            | : Not applicable                           |
| Oxidizing Substance                    | : The product is not oxidizing.            |
| Vapour Pressure                        | : Not available for this mixture.          |
| Density                                | : at 22 °C (72 °F)                         |
| Water solubility                       | : soluble                                  |
| Partition coefficient: n-octanol/water | : Not applicable                           |
| Viscosity                              | : Not applicable                           |
| Vapour density                         | : Not available for this mixture.          |
| Phys.-chem./other information          | : No other data to be specially mentioned. |

## SECTION 10. STABILITY AND REACTIVITY

|           |   |
|-----------|---|
| Stability | : Stable at normal temperatures and storage conditions. |
|-----------|---|



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Incompatibility : No materials to be especially mentioned.

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

**SECTION 11. TOXICOLOGICAL INFORMATION**

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Inhalation 4 h Acute toxicity estimate : > 5 mg/l , Rat

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

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

Skin irritation : No skin irritation, Rat

Eye irritation : No eye irritation, Rabbit

Sensitisation : The product is a skin sensitiser, sub-category 1B., Guinea pig

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

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.

Teratogenicity : Did not show teratogenic effects in animal experiments.  
Animal testing showed effects on embryo-fetal development at levels

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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 - feed

Mouse

90 d

Reduced body weight gain

Oral

Rat

28 d

Reduced body weight gain

Carcinogenicity

:

Not classifiable as a human carcinogen.

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

**SECTION 12. ECOLOGICAL INFORMATION**

Aquatic Toxicity

Thifensulfuron methyl

96 h LC50

:

Oncorhynchus mykiss (rainbow trout) &gt; 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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Tribenuron methyl

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

120 h EC50 : Pseudokirchneriella subcapitata (microalgae) 0.11 mg/l

14 d EC50 : Lemna gibba (duckweed) 0.00425 mg/l

48 h EC50 : Daphnia magna (Water flea) &gt; 894 mg/l

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: : 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.

### SECTION 14. TRANSPORT INFORMATION

IATA\_C UN number : 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
(Tribenuron methyl, Thifensulfuron-methyl)

Class : 9

Packing group : III

Labelling No. : 9MI

IMDG UN number : 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
SOLID, N.O.S. (Tribenuron methyl, Thifensulfuron-  
methyl)

Class : 9

Packing group : III



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Labelling No. : 9

Marine pollutant : yes (Tribenuron methyl, Thifensulfuron-methyl)

Not regulated as a hazardous material by TDG.

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**

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.

PCP Registration # : 29544

**SECTION 16. OTHER INFORMATION**

MSDS preparation date : 02/16/2016

<sup>TM</sup> Trademark of E.I. du Pont de Nemours and Company.

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Contact person : E.I. DuPont Canada Company, Mississauga, Ontario, L5M 2H3

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