



**Product Name:**  
**Triton® C Herbicide**  
**PCP #28622**

Triton® C Herbicide is a combination package containing three products.  
Attached are the component product SDS which make up Triton® C Herbicide

Accord\* Dry Flowable Bulk Herbicide                      PCP # 28962  
SDS Date: 01/10/2014  
Ref: 30252483/SDS\_CPA\_CA/EN

Express® SG Herbicide    PCP # 28176  
SDS Date: 03/01/2018  
Ref: 130000012165

Thifensulfuron 50 SG Herbicide                                      PCP # 28809  
SDS Date: 03/01/2018  
Ref: 130000036149

Please review the attached SDS, for a full and complete understanding of the hazards associated with each product before use.

**Manufacturer/Distributor:**

FMC Corporation  
2929 Walnut Street  
Philadelphia, PA 19104  
USA

**Telephone Numbers:**

Product Information: 1-215-299-6000  
Medical Emergency: 1-800-331-3148 (USA & Canada)  
Preparation Date: 01/29/2019

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# Safety Data Sheet

## ACCORD 75 DF HERBICIDE

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### 1. Product and Company Identification

#### Company

BASF Canada Inc.  
100 Milverton Drive  
Mississauga, ON L5R 4H1  
CANADA

#### 24 Hour Emergency Response Information

CANUTEC (reverse charges): (613) 996-6666  
BASF HOTLINE: (800) 454-COPE (2673)

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|                     |   |
|---------------------|---|
| Molecular formula:  | C <sub>10</sub> H <sub>2</sub> O <sub>2</sub> N Cl <sub>2</sub> |
| Chemical family:    | quinoline derivative  |
| PCP # 25118 / 28962 |   |
| Synonyms:           | quinclorac  |

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### 2. Hazards Identification

#### Emergency overview

CAUTION:  
POISON.  
Potential skin sensitizer.  
CAUTION:  
CAUSES SKIN IRRITATION.  
Causes eye irritation.  
KEEP OUT OF REACH OF CHILDREN.  
Avoid inhalation of dusts/mists/vapours.  
Avoid contact with the skin, eyes and clothing.

State of matter: solid  
Colour: tan  
Odour: mild, characteristic

#### Potential health effects

##### **Acute toxicity:**

Slightly toxic after single ingestion. Slightly toxic after short-term skin contact. Relatively nontoxic after short-term inhalation.

##### **Irritation / corrosion:**

May cause moderate but temporary irritation to the eyes. May cause moderate irritation to the skin. Irritating to eyes, respiratory system and skin.

##### **Sensitization:**

Skin sensitizing effects were not observed in animal studies. Some individuals may develop an allergic dermatitis.

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### **Signs and symptoms of overexposure:**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

### **Potential environmental effects**

#### **Aquatic toxicity:**

The product has not been tested. The statement has been derived from the properties of the individual components. Acutely harmful for aquatic organisms.

#### **Terrestrial toxicity:**

With high probability not acutely harmful to terrestrial organisms.

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### 3. Composition / Information on Ingredients

| <u>CAS Number</u> | <u>Content (W/W)</u> | <u>Hazardous ingredients</u> |
|-------------------|----------------------|------------------------------|
| 84087-01-4        | 75.0 %               | quinclorac                   |
| 13463-67-7        | >= 0.1 - <= 1.0 %    | Titanium dioxide             |
| 14808-60-7        | >= 0.1 - <= 1.0 %    | crystalline silica           |

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### 4. First-Aid Measures

#### **General advice:**

First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

#### **If inhaled:**

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary.

#### **If on skin:**

Rinse skin immediately with plenty of water for 15 - 20 minutes.

If irritation develops, seek medical attention.

#### **If in eyes:**

Flush with copious amounts of water for at least 15 minutes. If irritation develops, seek medical attention.

#### **If swallowed:**

Rinse mouth immediately and then drink plenty of water, induce vomiting, seek medical attention. Call a poison control center or physician for treatment advice.

#### **Note to physician**

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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### 5. Fire-Fighting Measures

Flash point:

not applicable

Lower explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

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Upper explosion limit: As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Flammability: Product is combustible.

Self-ignition temperature: not self-igniting The values mentioned are those of the active ingredient.

**Suitable extinguishing media:**  
foam, dry powder, carbon dioxide, water spray

**Hazards during fire-fighting:**  
carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, Hydrogen chloride, halogenated hydrocarbons, Hydrocarbons,  
If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire.

**Protective equipment for fire-fighting:**  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

**Further information:**  
Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

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## 6. Accidental release measures

**Personal precautions:**  
Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

**Environmental precautions:**  
Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

**Cleanup:**  
Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

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## 7. Handling and Storage

### Handling

**General advice:**  
Ensure adequate ventilation. Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. The substance/ product may be handled only by appropriately trained personnel. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours.

**Protection against fire and explosion:**  
The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear. Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

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### Storage

#### **General advice:**

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. The authority permits and storage regulations must be observed.

#### **Storage incompatibility:**

General advice: Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

#### **Storage stability:**

Storage duration: 24 Months

#### **Temperature tolerance**

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

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## 8. Exposure Controls and Personal Protection

**Users of a pesticidal product should refer to the product label for personal protective equipment requirements.**

### Components with occupational exposure limits

|                    |           |  |
|--------------------|-----------|--|
| crystalline silica | OSHA PEL  | TWA value 2.4 millions of particles per cubic foot of air Respirable ;<br>The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.<br>TWA value 0.1 mg/m3 Respirable ;<br>The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.<br>TWA value 0.3 mg/m3 Total dust ;<br>The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation. |
|                    | ACGIH TLV | TWA value 0.025 mg/m3 Respirable fraction ;  |
| Titanium dioxide   | ACGIH TLV | TWA value 10 mg/m3 ;   |

#### **Advice on system design:**

Ensure adequate ventilation.

### Personal protective equipment

#### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

#### **Hand protection:**

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

#### **Eye protection:**

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

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### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

### General safety and hygiene measures:

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated clothing.

## 9. Physical and Chemical Properties

|   |                      |  |
|---|----------------------|--|
| Form:   | granules, solid      |  |
| Odour:  | mild, characteristic |  |
| Odour threshold:                                    | No data available.   |  |
| Colour:   | tan                  |  |
| pH value:   | 3.2                  | ( 10 g/l)  |
| Melting point:                                      |                      | not applicable, The substance / product decomposes therefore not determined. |
| Boiling point:                                      |                      | The product is a non-volatile solid., not applicable                         |
| Vapour pressure:                                    |                      | negligible   |
| Bulk density:                                       | 565 - 595 g/l        |  |
| Vapour density:                                     |                      | not applicable   |
| <i>Information on: quinclorac</i>                   |                      |  |
| Partitioning coefficient n-octanol/water (log Pow): | -0.74                | ( 20 °C) (Directive 92/69/EEC, A.8)  |
| Partitioning coefficient n-octanol/water (log Pow): | -3.74                | ( 20 °C) (Directive 92/69/EEC, A.8)  |
| Partitioning coefficient n-octanol/water (log Pow): | 1.76                 | ( 20 °C) (Directive 92/69/EEC, A.8)  |
| -----   |                      |  |
| Viscosity, dynamic:                                 |                      | not applicable, the product is a solid                                       |
| Solubility in water:                                | 64 mg/l              | (approx. 20 °C)  |
| Molar mass:   | 239.04 g/mol         |  |

## 10. Stability and Reactivity

### Dust explosion class:

Kst value of 0 (St 0)

### Conditions to avoid:

Avoid all sources of ignition: heat, sparks, open flame. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures. This product may form an explosive mixture if: 1. the dust is suspended in the atmosphere as a dust cloud AND 2. the concentration of the dust is above the lower explosion limit (LEL) AND 3. the limiting oxygen concentration (LOC) is exceeded.

### Substances to avoid:

strong acids, strong bases, strong oxidizing agents

### Hazardous reactions:

The product is chemically stable.

Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

### Decomposition products:

Prolonged thermal loading can result in products of degradation being given off., No hazardous decomposition products if stored and handled as prescribed/indicated.

### Corrosion to metals:

Corrosive effects to metal are not anticipated.

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**Oxidizing properties:**  
not fire-propagating

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### 11. Toxicological information

#### Acute toxicity

**Oral:**

Type of value: LD50  
Species: rat (male/female)  
Value: > 2,200 mg/kg  
No mortality was observed.

**Inhalation:**

Type of value: LC50  
Species: rat  
Value: > 6.1 mg/l  
Exposure time: 4 h  
No mortality was observed.

**Dermal:**

Type of value: LD50  
Species: rat  
Value: > 2,000 mg/kg  
No mortality was observed.

#### Irritation / corrosion

**Skin:**

Species: rabbit  
Result: Irritating.

**Eye:**

Species: rabbit  
Result: moderately irritating

**Sensitization:**

modified Buehler test  
Species: guinea pig  
Result: Non-sensitizing.

#### Genetic toxicity

*Information on: Quinclorac*

*Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.*

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#### Carcinogenicity

*Information on: Quinclorac*

*In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.*

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#### Reproductive toxicity

*Information on: Quinclorac*

*The results of animal studies gave no indication of a fertility impairing effect.*

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### Development:

*Information on: Quinclorac*

*No indications of a developmental toxic / teratogenic effect were seen in animal studies.*

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## 12. Ecological Information

### Fish

*Information on: Quinclorac*

*Acute:*

*EPA 72-1 static*

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

*EPA 72-1 static*

*Lepomis macrochirus/LC50 (96 h): > 100 mg/l*

*Information on: quinclorac*

*Chronic:*

*Pimephales promelas (NOEC) 38 d 31 mg/l*

### Aquatic invertebrates

*Information on: Quinclorac*

*Acute:*

*OECD Guideline 202, part 1 static*

*Daphnia magna/EC50 (48 h): > 100 mg/l*

*Information on: quinclorac*

*Chronic:*

*Daphnia magna (NOEC) 21 d 110 mg/l -----*

### Aquatic plants

*Information on: Quinclorac*

*Toxicity to aquatic plants:*

*OECD Guideline 201 static*

*green algae/EC50 (96 h): > 100 mg/l*

*OECD Guideline 201 Algae/EC50 (96 h): > 100 mg/l*

### Environmental mobility:

*Information on: quinclorac*

*Assessment transport between environmental compartments:*

*Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.*

### Other adverse effects:

The ecological data given are those of the active ingredient. Do not release untreated into natural waters.

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## 13. Disposal considerations

### Waste disposal of substance:



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See product label for disposal and recycling instructions.

**Container disposal:**

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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### 14. Transport Information

**Land transport**

TDG

Not classified as a dangerous good under transport regulations

**Sea transport**

IMDG

Not classified as a dangerous good under transport regulations

**Air transport**

IATA/ICAO

Not classified as a dangerous good under transport regulations

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### 15. Regulatory Information

**Federal Regulations**

**Registration status:**

Crop Protection      DSL, CA      released / exempt

Chemical              DSL, CA      released / listed

WHMIS does not apply to this product.

**THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.**

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### 16. Other Information

Recommended use: herbicide

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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**SDS Prepared by:**

BASF NA Product Regulations  
msds@basf.com

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BASF HOTLINE (800) 454 – COPE (2673)  
SDS Prepared on: 2014/01/10

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END OF DATA SHEET

**Express® SG herbicide**

Version 1.0

Revision Date 03/01/2018

Ref. 130000012165

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 : Express® SG herbicide  
Tradename/Synonym : B11646119  
DPX-L5300 50SG  
Tribenuron methyl 50SG  
Affinity 2 Herbicide  
Affinity 50 SG  
Granstar 50 SG  
Tribenuron methyl: Methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)methylamino]carbonyl]amino]sulfonyl]benzoate  
Express® SG MUP

SDS Number : 130000012165

Product Use : Herbicide  
Manufacturer : FMC Corporation  
2929 Walnut Street  
Philadelphia, PA 19104  
(215) 299-6000 (General Information)  
msdsinfo@fmc.com (E-Mail General Information)

Medical Emergency : 1 800 / 331-3148 (ProPharma Group - U.S.A. & Canada)  
1 651 / 632-6793 (ProPharma Group - All Other Countries - Collect)  
For leak, fire, spill or accident emergencies, call:  
1 800 / 424 9300 (CHEMTREC - U.S.A.)  
1 703 / 741-5970 (CHEMTREC - International)  
1 703 / 527 3887 (CHEMTREC - Alternate)

**SECTION 2. HAZARDS IDENTIFICATION**

## Emergency Overview

## Caution

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes and clothing.

## Potential Health Effects

This section includes potential acute adverse effects which could occur if this material is not used according to the label.

## Skin

**Express<sup>®</sup> SG herbicide**

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Tribenuron methyl : May cause allergic skin reaction.

**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.

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

| Component         | CAS-No.     | Concentration |
|-------------------|-------------|---------------|
| Tribenuron methyl | 101200-48-0 | 50 %          |
| 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** : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary. Remove person to fresh air. If signs/symptoms continue, get medical attention. Artificial respiration and/or oxygen may be necessary. 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. See Section 1 for emergency phone numbers. See Label for Additional Precautions and Directions for Use.
- Notes to physician : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

- Flammable Properties
  - Flash point : Not applicable
- Fire and Explosion Hazard : Not a fire or explosion hazard. Under severe dusting conditions, this material may form explosive mixtures in air.
- Suitable extinguishing media : Water spray, Dry chemical, Foam, Carbon dioxide (CO2)
- Unsuitable extinguishing media : High volume water jet, (contamination risk)
- Firefighting Instructions : Wear full protective clothing and 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.

**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 : Sweep up and shovel into suitable containers for disposal.
- 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. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Wash the outside of gloves before removing. Remove personal protective equipment immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.
- Handling (Physical Aspects) : Keep away from heat and sources of ignition.
- Storage : Store in original container. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a cool, dry place. Keep out of the reach of children.

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

- Engineering controls : Use only with adequate ventilation.
- Personal protective equipment
- Respiratory protection : No personal respiratory protective equipment normally required.
- Skin and body protection : Applicators and other handlers must wear:  
Long sleeved shirt and long pants  
Shoes plus socks  
Chemical resistant gloves made of any waterproof material, such as polyethylene or polyvinyl chloride.  
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. Notify workers of the application by warning them orally or by posting warning signs at entrances to treated areas.
- Exposure Guidelines  
Exposure Limit Values
- No data available

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|                     |   |
|---------------------|---|
| Form                | : solid, granular   |
| Color               | : light brown   |
| Odor                | : mild  |
| pH                  | : 8.4 - 9.4 at 10 g/l 20 °C (68 °F)<br>(1% solution in water) |
| Oxidizing Substance | : The product is not oxidizing.                               |
| Bulk density        | : 640 kg/m <sup>3</sup><br>packed                             |
| Water solubility    | : soluble   |

**SECTION 10. STABILITY AND REACTIVITY**

|                     |   |
|---------------------|---|
| Stability           | : Stable at normal temperatures and storage conditions. |
| Conditions to avoid | : None reasonably foreseeable.                          |
| Incompatibility     | : No materials to be especially mentioned.              |
| Hazardous reactions | : Polymerization will not occur.                        |

**SECTION 11. TOXICOLOGICAL INFORMATION**

|                        |  |
|------------------------|--|
| Express® SG herbicide  |  |
| Dermal LD50            | : > 5,000 mg/kg , Rat  |
| Oral LD50              | : > 5,000 mg/kg , Rat  |
| Skin irritation        | : No skin irritation, Rabbit   |
| Eye irritation         | : No eye irritation, Rabbit  |
| Sensitisation          | : The product is a skin sensitiser, sub-category 1B., Guinea pig             |
| Tribenuron methyl      |  |
| Inhalation 4 h LC50    | : > 6.0 mg/l , Rat   |
| Repeated dose toxicity | :<br>The following effects occurred at levels of exposure that significantly |

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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**

Express® SG herbicide

- 96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 120 mg/l
- 72 h ErC50 : Pseudokirchneriella subcapitata (microalgae) > 0.080 mg/l
- 48 h EC50 : Daphnia (water flea) > 120 mg/l

- Additional ecological information** : 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**



**Express<sup>®</sup> SG herbicide**

Version 1.0

Revision Date 03/01/2018

Ref. 130000012165

- 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.  
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) |
|        | Class                | : 9  |
|        | Packing group        | : III  |
|        | Labelling No.        | : 9MI  |
| IMDG   | UN number            | : 3077   |
|        | Proper shipping name | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tribenuron methyl) |
|        | Class                | : 9  |
|        | Packing group        | : III  |
|        | Labelling No.        | : 9  |

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**

PCP Registration # : HERBICIDE: 28262 /MUP: 28176

**Express<sup>®</sup> SG herbicide**

Version 1.0

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Ref. 130000012165

Remarks : Regulated under the Pest Control Products Act - WHMIS exempt.

**SECTION 16. OTHER INFORMATION**

MSDS preparation date : 03/01/2018

® Registered trademark of FMC Corporation

Contact person : FMC Corporation  
2929 Walnut Street  
Philadelphia, PA 19104  
(215) 299-6000 (General Information)  
msdsinfo@fmc.com (E-Mail General Information)

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

## Thifensulfuron Methyl 50 SG Herbicide

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Revision Date 03/01/2018

Ref. 130000036149

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 : Thifensulfuron Methyl 50 SG Herbicide  
 Tradename/Synonym : DPX-M6316 50SG  
 B11646126  
 THIFENSULFURON METHYL: Methyl 3-[[[(4-methoxy-6-methyl-1,3,5- triazin-2-yl)amino]carbonyl]amino] sulfonyl]-2-thiophenecarboxylate  
 C11224244 - HARMONY 50SX (M)

MSDS Number : 130000036149

Product Use : Herbicide  
 Manufacturer : FMC Corporation  
 2929 Walnut Street  
 Philadelphia, PA 19104  
 (215) 299-6000 (General Information)  
 msdsinfo@fmc.com (E-Mail General Information)

Medical Emergency : 1 800 / 331-3148 (ProPharma Group - U.S.A. & Canada)  
 1 651 / 632-6793 (ProPharma Group - All Other Countries - Collect)  
 For leak, fire, spill or accident emergencies, call:  
 1 800 / 424 9300 (CHEMTREC - U.S.A.)  
 1 703 / 741-5970 (CHEMTREC - International)  
 1 703 / 527 3887 (CHEMTREC - Alternate)

### SECTION 2. HAZARDS IDENTIFICATION

#### Potential Health Effects

##### Skin

Thifensulfuron methyl : May cause skin irritation.  
 May cause: Irritation with discomfort or pain, redness or rash, itching or swelling.

##### Eyes

Thifensulfuron methyl : May cause eye irritation.  
 May cause: Tearing, redness, or discomfort.

##### Inhalation

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

##### Carcinogenicity

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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 3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Component             | CAS-No.    | Concentration |
|-----------------------|------------|---------------|
| Thifensulfuron methyl | 79277-27-3 | 50 %          |
| 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 : 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 : Never give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. See Section 1 for emergency phone numbers.

**SECTION 5. FIREFIGHTING MEASURES**

- Flammable Properties
- Flash point : Not applicable

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Lower explosion limit/ lower flammability limit : 0.1 - 0.25 g/l

Fire and Explosion Hazard : Under severe dusting conditions, this material may form explosive mixtures in air.

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 clothing and 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.

**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 : Sweep up and shovel into suitable containers for disposal. For minor spills, leaks, etc., follow all precautions indicated on the label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

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.

**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 thoroughly and put on

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clean clothing. Remove personal protective equipment 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, 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**

**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:  
 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**

No data available

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Form** : granules

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Color : light brown  
Odor : mild  
pH : 8.7 - 9.7  
Melting point/range : ca. 182 °C (360 °F)  
Bulk density : Tapped  
Water solubility : soluble

**SECTION 10. STABILITY AND REACTIVITY**

Stability : Stable at normal temperatures and storage conditions.  
Conditions to avoid : None reasonably foreseeable.  
Incompatibility : No materials to be especially mentioned.  
Hazardous reactions : Polymerization will not occur.

**SECTION 11. TOXICOLOGICAL INFORMATION**

## Thifensulfuron Methyl 50 SG Herbicide

Inhalation 4 h LC50 : > 5.3 mg/l , Rat  
Dermal LD50 : > 5,000 mg/kg , Rabbit  
Oral LD50 : > 5,000 mg/kg , Rat  
Skin irritation : No skin irritation, Rabbit  
Eye irritation : No eye irritation, Rabbit  
Sensitisation : Animal test did not cause sensitization by skin contact., Guinea pig

## 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

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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.<br>Animal testing did not show any mutagenic effects.   |
| Reproductive toxicity | : | No toxicity to reproduction<br>Animal testing showed no reproductive toxicity.  |
| Teratogenicity        | : | Did not show teratogenic effects in animal experiments.<br>Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity. |

**SECTION 12. ECOLOGICAL INFORMATION**

## Aquatic Toxicity

## Thifensulfuron Methyl 50 SG Herbicide

96 h LC50 : Oncorhynchus mykiss (rainbow trout) &gt; 120 mg/l

14 d EC50 : Lemna gibba (duckweed) 0.00130 mg/l

48 h EC50 : Daphnia magna (Water flea) &gt; 120 mg/l

## Thifensulfuron methyl

28 d : NOEC *Americamysis bahia* (mysid shrimp) 7.93 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. 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 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.



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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) |
|        | Class                | : 9  |
|        | Packing group        | : III  |
|        | Labelling No.        | : 9MI  |
| IMDG   | UN number            | : 3077   |
|        | Proper shipping name | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thifensulfuron-methyl) |
|        | Class                | : 9  |
|        | Packing group        | : III  |
|        | Labelling No.        | : 9  |

**SECTION 15. REGULATORY INFORMATION**

|                    |   |
|--------------------|---|
| PCP Registration # | : 28809   |
| Remarks            | : Regulated under the Pest Control Products Act - WHMIS exempt. |

**SECTION 16. OTHER INFORMATION**

MSDS preparation date : 03/01/2018

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Revision Date 03/01/2018

Ref. 130000036149

Contact person : FMC Corporation  
2929 Walnut Street  
Philadelphia, PA 19104  
(215) 299-6000 (General Information)  
msdsinfo@fmc.com (E-Mail General Information)

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