

**PP-23235 Herbicide**

Version 1.0

Revision Date 03/01/2018

Ref. 130000050602

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 : PP-23235 Herbicide  
SDS Number : 130000050602

Product Use : Herbicide

Manufacturer/Supplier : 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 (U.S.A. & Canada)  
1 651 / 632-6793 (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**

Information presented in Section 2 conforms to the requirements of the Hazardous Products Regulations (HPR) and WHMIS 2015. See Section 15 for applicable information conforming to the requirements of the Pest Management Regulatory Agency (PMRA).

**Skin**

Tribenuron methyl : May cause allergic skin reaction.

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

Trisodium phosphate dodecahydrate : Acute dermal irritation/corrosion

Sodium carbonate : May cause skin irritation.  
May cause: Discomfort, itching, redness, or swelling.

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**Eyes**

- Tribenuron methyl : May irritate eyes.
- Thifensulfuron methyl : May cause eye irritation.  
May cause: Tearing, redness, or discomfort.
- Metsulfuron methyl : May cause eye irritation. May cause: Tearing, redness, or discomfort..
- Trisodium phosphate dodecahydrate : Corrosive, may cause permanent eye injury if not promptly treated.
- Sodium carbonate : Causes eye irritation.  
May cause: Tearing, pain, redness, swelling, ulceration, visual impairment, or blindness.  
May cause irreversible eye damage.

**Inhalation**

- Thifensulfuron methyl : May cause: Respiratory irritation, Discomfort, Cough.
- Trisodium phosphate dodecahydrate : Respiratory tract damage
- Sodium carbonate : May cause respiratory tract irritation.

**Target Organ**

- Sodium carbonate : Respiratory Tract

**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	23.1 %

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Thifensulfuron methyl	79277-27-3	23.1 %
Metsulfuron methyl	74223-64-6	4.6 %
Trisodium phosphate dodecahydrate	10101-89-0	1 - 5 %
Sodium carbonate	497-19-8	5 - 10 %
Other Ingredients		34.2 - 43.2 %

**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 : 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.
- Inhalation : 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.  
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 : Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Do not give anything by mouth to an unconscious person.

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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.  
Information presented in Section 4 conforms to the requirements of the Hazardous Products Regulations (HPR) and WHMIS 2015. See Section 15 for applicable information conforming to the requirements of the Pest Management Regulatory Agency (PMRA).

Notes to physician : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

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

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

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

**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 : 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 and wash contaminated clothing before re-use.

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Storage : Do not contaminate water, other pesticides, fertilizer, food or feed in storage.  
Store in original container. Keep out of the reach of children.

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

Engineering controls : Use only with adequate ventilation. Information presented in Section 8 conforms to the requirements of the Hazardous Products Regulations (HPR) and WHMIS 2015. See Section 15 for applicable information conforming to the requirements of the Pest Management Regulatory Agency (PMRA).

## Personal protective equipment

Eye protection : Wear safety glasses with side shields.

## 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 in accordance with Provincial and Territorial management programs, and that involves contact with anything that has been treated, such as plants, soil, or water, is:  
Coveralls  
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

## Protective measures

: 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.  
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 : solid, granules

Color : light brown

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pH : 7.5  
Bulk density : 0.65 - 0.75 g/cm<sup>3</sup>

**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.

**SECTION 11. TOXICOLOGICAL INFORMATION**

## PP-23235 Herbicide

Inhalation 4 h Acute toxicity estimate : > 5.0 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, Rabbit  
Minimal effects that do not meet the threshold for classification.  
  
Eye irritation : No eye irritation, Rabbit  
Minimal effects that do not meet the threshold for classification.  
  
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.  
Further information : Information presented in section 11 conforms to the requirements of the Hazardous Products Regulations (HPR) and WHMIS 2015. See Section 15 for applicable information conforming to the requirements of the Pest Management Regulatory Agency (PMRA).

## 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

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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

Reproductive toxicity : No toxicity to reproduction

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.

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 equal to or above those causing maternal toxicity.

Metsulfuron methyl

Repeated dose toxicity : The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Oral

Rat

Reduced body weight gain, Organ weight changes, Liver

Dermal

Rabbit

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## Skin irritation

Carcinogenicity : Not classifiable as a human carcinogen.  
Did not show carcinogenic effects in animal experiments.

Reproductive toxicity : No toxicity to reproduction  
Animal testing did not show any effects on fertility.

Teratogenicity : Animal testing showed no developmental toxicity.

## Sodium carbonate

Repeated dose toxicity : Inhalation  
Rat

## Respiratory tract irritation

Reproductive toxicity : Animal testing showed no reproductive toxicity.

Teratogenicity : Animal testing showed no developmental toxicity.

**SECTION 12. ECOLOGICAL INFORMATION**

## Aquatic Toxicity

## Tribenuron methyl

96 h LC50 : Oncorhynchus mykiss (rainbow trout) 738 mg/l  
120 h EC50 : Pseudokirchneriella subcapitata (microalgae) 0.11 mg/l  
14 d EC50 : Lemna gibba (duckweed) 0.00425 mg/l  
48 h EC50 : Daphnia magna (Water flea) > 894 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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**Metsulfuron methyl**

96 h LC50	:	Oncorhynchus mykiss (rainbow trout) > 150 mg/l
72 h EC50	:	Anabaena flos-aquae (cyanobacteria) 0.066 mg/l
14 d EC50	:	Lemna minor (common duckweed) 0.00036 mg/l
48 h EC50	:	Daphnia magna (Water flea) > 120 mg/l

**Trisodium phosphate dodecahydrate**

96 h EC50	:	Gambusia affinis (Mosquito fish) 151 mg/l
96 h EC50	:	Daphnia magna (Water flea) 126 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

**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 : Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

**SECTION 14. TRANSPORT INFORMATION**

IATA\_C UN number : 3077

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IMDG	Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Thifensulfuron-methyl, Tribenuron methyl)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9MI
	UN number	: 3077
	Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thifensulfuron-methyl, Tribenuron methyl)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9
	Marine pollutant	: yes (Thifensulfuron-methyl, Tribenuron methyl)

Not regulated as a hazardous material by DOT.

Not regulated as a hazardous material by IATA.

Optional classification as per IATA Special Provision A97.

Not regulated as a hazardous material by TDG.

**SECTION 15. REGULATORY INFORMATION**

Other regulations : This Safety Data Sheet is for a pesticide product registered by the Pest Management Regulatory Agency (PMRA), and is therefore also subject to certain requirements under Canadian pesticide laws, including the Pest Control Products Act (PCPA). These requirements differ from the classification criteria and hazard information required by the Hazardous Product Regulations (HPR) and WHMIS 2015 for safety data sheets, and for workplace labels of non-pesticide chemicals. The following information is determined by PMRA.

The approved pest control product label (the label), under the Pest Control Products Act, needs to be followed at all times and in cases where there are any discrepancies between the approved label and an SDS for that product it is the label information that prevails.

May cause skin irritation. Avoid breathing spray mist. Avoid contact with skin, eyes and clothing. May be harmful if swallowed, in contact with skin or if inhaled. Causes eye and skin irritation.

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PCP Registration # : 29262

**SECTION 16. OTHER INFORMATION**

MSDS preparation date : 03/01/2018

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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