

Express® Pro Herbicide

Version 1.0

Revision Date 03/01/2018

Ref. 130000042731

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® Pro Herbicide
Tradename/Synonym : DPX-NRJ69 51.5 SG Blend

SDS Number : 130000042731

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

Tribenuron methyl : May cause allergic skin reaction.

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

Trisodium phosphate
dodecahydrate : Acute dermal irritation/corrosion

Eyes

Tribenuron methyl : May irritate eyes.

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

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Sodium carbonate : Causes eye irritation.
May cause: Tearing, pain, redness, swelling, ulceration, visual impairment, or blindness.
May cause irreversible eye damage.

Trisodium phosphate dodecahydrate : Corrosive, may cause permanent eye injury if not promptly treated.

Inhalation

Sodium carbonate : May cause respiratory tract irritation.

Trisodium phosphate dodecahydrate : Respiratory tract damage

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	42.9 %
Metsulfuron methyl	74223-64-6	8.6 %
Sodium carbonate	497-19-8	5 - 10 %
Trisodium phosphate dodecahydrate	10101-89-0	8.83 %
Other Ingredients		29.67 - 34.67 %

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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 : 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.
- 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.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray, Foam, Dry chemical, 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.

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- Safeguards (Personnel) : Evacuate personnel to safe areas. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Wear suitable 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.

SECTION 7. HANDLING AND STORAGE

- Handling (Personnel) : Avoid contact with skin, eyes and clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid breathing dust or vapour.
- Handling (Physical Aspects) : Keep away from heat and sources of ignition.
- 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 : Use only with adequate ventilation.
- Personal protective equipment
- Respiratory protection : Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.
- Hand protection : Material: Protective gloves
- Eye protection : Wear safety glasses with side shields. Additionally wear a face shield where the possibility exists for face contact due to splashing, spraying or airborne contact with this material.
- Skin and body protection : Where there is potential for skin contact have available and wear as appropriate impervious gloves, apron, pants, and jacket.
- Exposure Guidelines
Exposure Limit Values

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No data available

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

pH : no data available
Bulk density : 0.60 - 0.75 g/cm³

SECTION 10. STABILITY AND REACTIVITY

Stability : Stable at normal temperatures and storage conditions.
Conditions to avoid : None reasonably foreseeable.
Incompatibility : None reasonably foreseeable.
Hazardous reactions : Polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Tribenuron methyl

Dermal LD50 : > 5,000 mg/kg , Rat

Oral LD50 : > 5,000 mg/kg , Rat

Inhalation 4 h LC50 : > 6.0 mg/l , Rat

Skin irritation : No skin irritation, Rabbit

Eye irritation : slight irritation, Rabbit

Skin sensitization : Causes sensitisation., Guinea pig

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

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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

Metsulfuron methyl

Dermal LD50 : > 5,000 mg/kg , Rabbit
The result is based on a weight of evidence approach.

Oral LD50 : > 5,000 mg/kg , Rat

Inhalation 4 h LC50 : > 5.3 mg/l , Rat

Skin irritation : No skin irritation, Rabbit

Eye irritation : No eye irritation, Rabbit

Skin sensitization : Animal test did not cause sensitization by skin contact., Guinea pig

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

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.

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Teratogenicity : Animal testing showed no developmental toxicity.

Sodium carbonate

Dermal LD50 : > 2,000 mg/kg , Rabbit

Oral LD50 : > 2,000 mg/kg , Rat

Inhalation 4 h LC50 : 1.15 mg/l , Rat
 Target Organs: Respiratory Tract
 Respiratory irritation
 Information source: Data provided by an external source.

Skin irritation : slight irritation, Rabbit

Eye irritation : Irreversible effects on the eye, Rabbit

Repeated dose toxicity : Inhalation
 Rat

Respiratory tract irritation

Reproductive toxicity : Animal testing showed no reproductive toxicity.

Teratogenicity : Animal testing showed no developmental toxicity.

Trisodium phosphate dodecahydrate

Skin irritation : Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days., Rabbit

Eye irritation : Risk of serious damage to eyes., Rabbit

Skin sensitization : no data available

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

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

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. Do not transport if this container is damaged or leaking.
Environmental Hazards	:	Do not re-use empty containers.

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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
	Marine pollutant	: yes (Tribenuron methyl)

Not regulated as a hazardous material by DOT.

Not regulated as a hazardous material by TDG.

SECTION 15. REGULATORY INFORMATION

PCP Registration #	: 29212
Remarks	: Regulated under the Pest Control Products Act - WHMIS exempt.

SECTION 16. OTHER INFORMATION

MSDS preparation date : 03/01/2018

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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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