

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## T-PAC XP™ herbicide

|         |                |             |                                 |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 02/01/2018  |
| 1.2     | 03/03/2025     | 50000126    | Date of first issue: 02/01/2018 |

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### SECTION 1. IDENTIFICATION

#### Product identifier

**Product name** T-PAC XP™ herbicide

#### Other means of identification

**Product code** 50000126

#### Recommended use of the chemical and restrictions on use

**Recommended use** Can be used as herbicide only.

**Restrictions on use** Use as recommended by the label.

#### Manufacturer or supplier's details

**Manufacturer** FMC Corporation  
2929 WALNUT ST  
PHILADELPHIA PA 19104  
USA  
(215) 299-6000  
SDS-Info@fmc.com

**Supplier Address** FMC Corporation  
2929 Walnut Street  
Philadelphia PA 19104  
USA

#### Emergency telephone

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)

Medical emergency:  
U.S.A. & Canada: +1 800 / 331-3148  
All other countries: +1 651 / 632-6793 (Collect)

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### SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Specific target organ toxicity : Category 2 (Thyroid, Nervous system)  
- repeated exposure

**GHS label elements**

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Hazard pictograms

:



Signal Word

: WARNING

Hazard Statements

: H373 May cause damage to organs (Thyroid, Nervous system) through prolonged or repeated exposure.

Precautionary Statements

: **Prevention:**  
P260 Do not breathe dust.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

Very toxic to aquatic life.  
Very toxic to aquatic life with long lasting effects.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

| Chemical name  | CAS-No.     | Concentration (% w/w) |
|--|-------------|-----------------------|
| thifensulfuron-methyl (ISO)  | 79277-27-3  | 37.5                  |
| tribenuron-methyl (ISO)  | 101200-48-0 | 37.5                  |
| kaolin   | 1332-58-7   | $\geq 10 - < 20$      |
| Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts | 68425-94-5  | $\geq 1 - < 5$        |
| Lignosulfonic acid, ethoxylated, sodium salts  | 68611-14-3  | $\geq 1 - < 5$        |

## SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

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- |   |   |
|---|---|
| If inhaled  | : Move to fresh air.<br>Consult a physician after significant exposure.<br>If unconscious, place in recovery position and seek medical advice.<br>If experiencing any discomfort, immediately remove from exposure. Get medical attention if discomfort does not disappear. |
| In case of skin contact                                     | : Take off all contaminated clothing immediately.<br>Wash contaminated clothing before re-use.<br>Wash off immediately with plenty of water for at least 15 minutes.<br>Get medical attention if irritation develops and persists.  |
| In case of eye contact                                      | : Flush eyes with water as a precaution.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.   |
| If swallowed  | : Do not induce vomiting without medical advice.<br>Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.   |
| Most important symptoms and effects, both acute and delayed | : May cause damage to organs through prolonged or repeated exposure.  |
| Notes to physician  | : Treat symptomatically.  |

### SECTION 5. FIRE-FIGHTING MEASURES

- |                                       |  |
|---------------------------------------|--|
| Suitable extinguishing media          | : Dry chemical, CO2, water spray or regular foam.<br>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media        | : High volume water jet<br>Do not spread spilled material with high-pressure water streams.  |
| Specific hazards during fire fighting | : Do not allow run-off from fire fighting to enter drains or water courses.  |
| Hazardous combustion products         | : Nitrogen oxides (NOx)<br>Sulfur oxides<br>Carbon oxides<br>Fire may produce irritating, corrosive and/or toxic gases.<br>Hydrogen cyanide                  |
| Further information                   | : Collect contaminated fire extinguishing water separately. This   |

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must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
Ensure adequate ventilation.  
Never return spills in original containers for re-use.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.  
Only qualified personnel equipped with suitable protective equipment may intervene.  
For disposal considerations see section 13.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Avoid dust formation.  
Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapors/dust.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage : No decomposition if stored and applied as directed.

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age stability

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

| Components | CAS-No.   | Value type<br>(Form of exposure)    | Control parameters / Permissible concentration | Basis     |
|------------|-----------|-------------------------------------|--|-----------|
| kaolin     | 1332-58-7 | TWA (Respirable particulate matter) | 2 mg/m <sup>3</sup>                            | ACGIH     |
|            |           | TWA (Respirable)                    | 5 mg/m <sup>3</sup>                            | NIOSH REL |
|            |           | TWA (total)                         | 10 mg/m <sup>3</sup>                           | NIOSH REL |
|            |           | TWA (total dust)                    | 15 mg/m <sup>3</sup>                           | OSHA Z-1  |
|            |           | TWA (respirable fraction)           | 5 mg/m <sup>3</sup>                            | OSHA Z-1  |
|            |           | TWA (Total dust)                    | 10 mg/m <sup>3</sup>                           | OSHA P0   |
|            |           | TWA (respirable dust fraction)      | 5 mg/m <sup>3</sup>                            | OSHA P0   |

#### Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection  
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles
- Skin and body protection : Dust impervious protective suit  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Protective measures : Plan first aid action before beginning work with this product.  
Always have on hand a first-aid kit, together with proper instructions.  
Ensure that eye flushing systems and safety showers are located close to the working place.  
Wear suitable protective equipment.  
In the context of professional plant protection use as recommended, the end user must refer to the label and the instruc-

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tions for use.

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |   |
|--|---|
| Physical state                                   | : solid   |
| Form   | : solid, extruded granules  |
| Color  | : light brown   |
| Odor   | : slight  |
| Odor Threshold                                   | : Not applicable  |
| pH   | : 5.9 - 6.2 (68 °F / 20 °C)<br>Concentration: 10 g/l<br>Method: CIPAC MT 75 |
| Melting point/ range                             | : Not available for this mixture.   |
| Boiling point/boiling range                      | : Not applicable  |
| Flash point                                      | : Not applicable  |
| Evaporation rate                                 | : Not applicable  |
| Flammability (solid, gas)                        | : Does not sustain combustion.  |
| Self-ignition                                    | : Not available for this mixture.   |
| Upper explosion limit / Upper flammability limit | : Not available for this mixture.   |
| Lower explosion limit / Lower flammability limit | : Not available for this mixture.   |
| Vapor pressure                                   | : Not available for this mixture.   |
| Relative vapor density                           | : Not available for this mixture.   |
| Relative density                                 | : Not available for this mixture.   |

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|  |   |  |
|--|---|--|
| Density                                | : | No data available                                  |
| Bulk density                           | : | 0.69 - 0.72 g/cm <sup>3</sup> Method: CIPAC MT 169 |
| Solubility(ies)                        | : |  |
| Water solubility                       | : | soluble  |
| Solubility in other solvents           | : | No data available                                  |
| Partition coefficient: n-octanol/water | : | No data available                                  |
| Autoignition temperature               | : | No data available                                  |
| Decomposition temperature              | : | Not available for this mixture.                    |
| Viscosity                              | : |  |
| Viscosity, dynamic                     | : | No data available                                  |
| Viscosity, kinematic                   | : | Not applicable                                     |
| Explosive properties                   | : | Not explosive                                      |
| Oxidizing properties                   | : | The product is not oxidizing.                      |

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### SECTION 10. STABILITY AND REACTIVITY

|                                    |   |   |
|------------------------------------|---|---|
| Reactivity                         | : | No decomposition if stored and applied as directed.         |
| Chemical stability                 | : | No decomposition if stored and applied as directed.         |
| Possibility of hazardous reactions | : | No decomposition if stored and applied as directed.         |
| Conditions to avoid                | : | Avoid extreme temperatures.<br>Avoid dust formation.        |
| Incompatible materials             | : | Not applicable<br>Avoid strong acids, bases, and oxidizers. |
| Hazardous decomposition products   | : | No hazardous decomposition products are known.              |

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Based on available data, the classification criteria are not met.

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### **Product:**

|                           |   |  |
|---------------------------|---|--|
| Acute oral toxicity       | : | Acute toxicity estimate (Rat): > 5,000 mg/kg<br>Method: Expert judgment  |
| Acute inhalation toxicity | : | Acute toxicity estimate (Rat): > 5.0 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: Expert judgment |
| Acute dermal toxicity     | : | Acute toxicity estimate (Rat): > 5,000 mg/kg<br>Method: Expert judgment  |

### **Components:**

#### **thifensulfuron-methyl (ISO):**

|                           |   |  |
|---------------------------|---|--|
| Acute oral toxicity       | : | LD50 (Rat): > 5,000 mg/kg  |
| Acute inhalation toxicity | : | LC50 (Rat): > 7.9 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist |
| Acute dermal toxicity     | : | LD50 (Rat): > 2,000 mg/kg  |

#### **tribenuron-methyl (ISO):**

|                           |   |  |
|---------------------------|---|--|
| Acute oral toxicity       | : | LD50: > 5,000 mg/kg<br>Method: OECD Test Guideline 425   |
| Acute inhalation toxicity | : | LC50 (Rat): > 5.14 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403 |
| Acute dermal toxicity     | : | LD50 (Rat): > 5,000 mg/kg<br>Method: OECD Test Guideline 402   |

#### **kaolin:**

|                           |   |   |
|---------------------------|---|---|
| Acute oral toxicity       | : | LD50 (Rat): > 5,000 mg/kg<br>Method: OECD Test Guideline 401<br><br>LD50: > 2,000 mg/kg<br>Method: OECD Test Guideline 420<br>Assessment: The substance or mixture has no acute oral toxicity |
| Acute inhalation toxicity | : | LC50: 5.07 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 436  |



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Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
LD50: > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### **Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

### **Lignosulfonic acid, ethoxylated, sodium salts:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

### **Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

#### **Product:**

Species : Rabbit  
Assessment : Not classified as irritant  
Result : No skin irritation  
Remarks : Minimal effects that do not meet the threshold for classification.

#### **Components:**

##### **thifensulfuron-methyl (ISO):**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
Remarks : Minimal effects that do not meet the threshold for classification.

##### **tribenuron-methyl (ISO):**

Species : Rabbit  
Assessment : Not classified as irritant  
Method : OECD Test Guideline 404  
Remarks : May cause mild irritation.  
Based on available data, the classification criteria are not met.

##### **kaolin:**

Method : OECD Test Guideline 404  
Result : No skin irritation

### **Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

Remarks : No data available

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### **Lignosulfonic acid, ethoxylated, sodium salts:**

Result : Skin irritation

### **Serious eye damage/eye irritation**

Based on available data, the classification criteria are not met.

### **Product:**

Species : Rat  
Result : No eye irritation  
Assessment : Not classified as irritant  
Remarks : Minimal effects that do not meet the threshold for classification.

### **Components:**

#### **thifensulfuron-methyl (ISO):**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

#### **tribenuron-methyl (ISO):**

Species : Rabbit  
Assessment : No eye irritation  
Method : OECD Test Guideline 405  
Remarks : May cause mild irritation.  
Based on available data, the classification criteria are not met.

#### **kaolin:**

Result : No eye irritation  
Method : OECD Test Guideline 405

### **Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

Result : Eye irritation

### **Lignosulfonic acid, ethoxylated, sodium salts:**

Result : Moderate eye irritation

### **Respiratory or skin sensitization**

#### **Skin sensitization**

Based on available data, the classification criteria are not met.

#### **Respiratory sensitization**

Based on available data, the classification criteria are not met.

### **Product:**

Species : Guinea pig

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Result : Did not cause sensitization on laboratory animals.  
Remarks : Not expected to cause skin sensitisation.

### **Components:**

#### **thifensulfuron-methyl (ISO):**

Test Type : Maximization Test  
Species : Guinea pig  
Method : OECD Test Guideline 429  
Result : Does not cause skin sensitization.

#### **tribenuron-methyl (ISO):**

Test Type : Maximization Test  
Species : Guinea pig  
Assessment : May cause sensitization by skin contact.  
Method : OECD Test Guideline 406  
Result : Causes skin sensitization.

#### **kaolin:**

Method : OECD Test Guideline 429  
Result : Does not cause skin sensitization.

### **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

### **Components:**

#### **thifensulfuron-methyl (ISO):**

Genotoxicity in vitro : Test system: Chinese hamster ovary cells  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: In vitro tests did not show mutagenic effects

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

#### **tribenuron-methyl (ISO):**

Germ cell mutagenicity - Assessment : Did not show mutagenic effects in animal experiments.

#### **kaolin:**

Genotoxicity in vitro : Test Type: Ames test  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Remarks: No data available

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### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Components:

##### **thifensulfuron-methyl (ISO):**

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

##### **tribenuron-methyl (ISO):**

Remarks : No significant adverse effects were reported

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

|             |   |           |
|-------------|---|-----------|
| <b>IARC</b> | Group 1: Carcinogenic to humans<br>kaolin<br>(Silica dust, crystalline) | 1332-58-7 |
|-------------|---|-----------|

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

|            |   |           |
|------------|---|-----------|
| <b>NTP</b> | Known to be human carcinogen<br>kaolin<br>(Silica, Crystalline (Respirable Size)) | 1332-58-7 |
|------------|---|-----------|

### Reproductive toxicity

Based on available data, the classification criteria are not met.

#### Components:

##### **thifensulfuron-methyl (ISO):**

Reproductive toxicity - Assessment : Did not show teratogenic effects in animal experiments.

##### **tribenuron-methyl (ISO):**

Reproductive toxicity - Assessment : No toxicity to reproduction  
Animal testing did not show any effects on fetal development.,  
Did not show teratogenic effects in animal experiments.

##### **kaolin:**

Effects on fertility : Remarks: No data available

Effects on fetal development : Remarks: No data available

### STOT-single exposure

Based on available data, the classification criteria are not met.

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### **Components:**

#### **tribenuron-methyl (ISO):**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### **kaolin:**

Remarks : No significant adverse effects were reported

#### **Lignosulfonic acid, ethoxylated, sodium salts:**

Assessment : May cause respiratory irritation.

### **STOT-repeated exposure**

May cause damage to organs (Thyroid, Nervous system) through prolonged or repeated exposure.

### **Components:**

#### **tribenuron-methyl (ISO):**

Target Organs : Thyroid, Nervous system  
Assessment : May cause damage to organs through prolonged or repeated exposure.

#### **kaolin:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Repeated dose toxicity**

### **Components:**

#### **thifensulfuron-methyl (ISO):**

Species : Rat  
LOAEL : ca. 200 mg/kg  
Exposure time : 90 d  
Target Organs : No specific target organs noted  
Symptoms : Reduced body weight

#### **tribenuron-methyl (ISO):**

Species : Rabbit  
LOAEL : 80 mg/kg  
Target Organs : Thyroid, Nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.  
Remarks : Increased mortality or reduced survival

#### **kaolin:**

Remarks : No data available

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### Aspiration toxicity

Based on available data, the classification criteria are not met.

### Components:

#### tribenuron-methyl (ISO):

The substance does not have properties associated with aspiration hazard potential.

### Further information

#### Product:

Remarks : Information presented in this Section conforms to the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory Agencies.

Remarks : No data available

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

#### thifensulfuron-methyl (ISO):

|   |   |
|---|---|
| Toxicity to fish                                    | : LC50 (Salmo gairdneri): 100 mg/l<br>Exposure time: 96 h                                 |
|   | LC50 (Oncorhynchus mykiss (rainbow trout)): > 250 mg/l<br>Exposure time: 96 h             |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 470 mg/l<br>Exposure time: 48 h                      |
| Toxicity to algae/aquatic plants                    | : IC50 (green algae): 0.0159 mg/l<br>Exposure time: 72 h                                  |
|   | ErC50 (Raphidocelis subcapitata (freshwater green alga)): 1.4 mg/l<br>Exposure time: 72 h |
|   | EC50 (Lemna minor (duckweed)): 1.3 µg/l   |
| Toxicity to fish (Chronic toxicity)                 | : NOEC (Salmo gairdneri): 250 mg/l<br>Exposure time: 28 d                                 |
|   | NOEC (Oncorhynchus mykiss (rainbow trout)): 10.6 mg/l                                     |

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Exposure time: 21 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 100 mg/l  
Exposure time: 21 d

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 2,000 mg/kg

Toxicity to terrestrial organisms : LD50 (Anas platyrhynchos (Mallard duck)): > 2,510 mg/kg

LD50 (Anas platyrhynchos (Mallard duck)): > 5,620 ppm  
Remarks: Dietary

LD50 (Colinus virginianus (Bobwhite quail)): > 5,620 ppm

LD50 (Apis mellifera (bees)): > 7.1 µg/bee  
End point: Acute oral toxicity

LD50 (Apis mellifera (bees)): > 100 µg/bee  
End point: Acute contact toxicity

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

### tribenuron-methyl (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 738 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Crustaceans): > 320 mg/l  
Exposure time: 48 h

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

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.0208 mg/l  
Exposure time: 120 h

EC50 (Lemna gibba (duckweed)): 0.00424 mg/l  
Exposure time: 14 d

Toxicity to fish (Chronic toxicity) : NOEC (Cyprinodon variegatus (sheepshead minnow)): 114 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

NOEC (Oncorhynchus mykiss (rainbow trout)): 560 mg/l

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Exposure time: 21 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 41 mg/l  
Exposure time: 21 d

Toxicity to soil dwelling organisms : NOEC (Eisenia fetida (earthworms)): 3.2 mg/kg  
Exposure time: 56 d

Toxicity to terrestrial organisms : LD50 (Colinus virginianus (Bobwhite quail)): > 2,250 mg/kg

LD50 (Colinus virginianus (Bobwhite quail)): > 5,620 ppm  
Remarks: Dietary

LD50 (Anas platyrhynchos (Mallard duck)): > 5,620 ppm  
Remarks: Dietary

LD50 (Apis mellifera (bees)): > 98.4 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity

LD50 (Apis mellifera (bees)): > 9.1 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

### kaolin:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available



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### Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

|  |   |   |
|--|---|---|
| Toxicity to fish   | : | LC50 (Zebra fish): > 10 - 100 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br>Remarks: Based on data from similar materials                               |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 (Daphnia magna (Water flea)): > 100 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202<br>Remarks: Based on data from similar materials                    |
| Toxicity to algae/aquatic plants                                       | : | EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>Remarks: Based on data from similar materials |
|  | : | EC10 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>Remarks: Based on data from similar materials |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | EC10 (Daphnia magna (Water flea)): > 10 - 100 mg/l<br>Exposure time: 21 d<br>Method: OECD Test Guideline 211<br>Remarks: Based on data from similar materials               |

### Persistence and degradability

#### Components:

##### **thifensulfuron-methyl (ISO):**

|                  |   |  |
|------------------|---|--|
| Biodegradability | : | Remarks: Not readily biodegradable.<br>Primary degradation half-lives vary with circumstances, from a few days to a few weeks in aerobic water and soil. |
|------------------|---|--|

##### **tribenuron-methyl (ISO):**

|                  |   |   |
|------------------|---|---|
| Biodegradability | : | Biodegradation: 29.4 %<br>Exposure time: 28 d |
|------------------|---|---|

##### **kaolin:**

|                  |   |   |
|------------------|---|---|
| Biodegradability | : | Remarks: The methods for determining biodegradability are not applicable to inorganic substances. |
|------------------|---|---|

### Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

|                  |   |   |
|------------------|---|---|
| Biodegradability | : | Result: Not readily biodegradable.<br>Remarks: Based on data from similar materials |
|------------------|---|---|

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### Lignosulfonic acid, ethoxylated, sodium salts:

Biodegradability : Result: Not readily biodegradable.

### Bioaccumulative potential

#### Components:

##### thifensulfuron-methyl (ISO):

Bioaccumulation : Bioconcentration factor (BCF): 1  
Remarks: Does not bioaccumulate.

##### tribenuron-methyl (ISO):

Bioaccumulation : Bioconcentration factor (BCF): < 1  
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: -0.38

##### kaolin:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : Remarks: Not applicable

### Mobility in soil

#### Components:

##### thifensulfuron-methyl (ISO):

Distribution among environmental compartments : Koc: 28.3, log Koc: 1.45  
Remarks: Highly mobile in soils

Stability in soil :

##### tribenuron-methyl (ISO):

Distribution among environmental compartments : Remarks: Under normal conditions the active ingredient/s is/are of high to intermediate mobility in soil. There is a potential for leaching to groundwater.

##### kaolin:

Distribution among environmental compartments : Remarks: Low mobility in soil.

### Other adverse effects

#### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Pro-

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tection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

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.  
  
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Tribenuron-methyl, Thifensulfuron-methyl)  
Class : 9  
Subsidiary risk : ENVIRONM.  
Packing group : III  
Labels : 9 (ENVIRONM.)  
Environmentally hazardous : yes

##### IATA-DGR

UN/ID No. : UN 3077  
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
(Tribenuron-methyl, Thifensulfuron-methyl)  
Class : 9

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Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 956  
Packing instruction (passenger aircraft) : 956  
Environmentally hazardous : yes

### IMDG-Code

UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Tribenuron-methyl, Thifensulfuron-methyl)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR Road

UN/ID/NA number : UN 3077  
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
(Tribenuron-methyl, Thifensulfuron-methyl)  
Class : 9  
Packing group : III  
Labels : CLASS 9  
ERG Code : 171  
Marine pollutant : yes(Tribenuron-methyl, Thifensulfuron-methyl)  
Remarks : Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

### Special precautions for user

Remarks : 49CFR: no dangerous good in non-bulk packaging

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

### SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

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### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

|                         |             |                |
|-------------------------|-------------|----------------|
| tribenuron-methyl (ISO) | 101200-48-0 | >= 30 - < 50 % |
|-------------------------|-------------|----------------|

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

### Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

|              |         |                |
|--------------|---------|----------------|
| formaldehyde | 50-00-0 | >= 0 - < 0.1 % |
|--------------|---------|----------------|

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

|              |         |                |
|--------------|---------|----------------|
| formaldehyde | 50-00-0 | >= 0 - < 0.1 % |
|--------------|---------|----------------|

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

### US State Regulations

#### Massachusetts Right To Know

|              |           |
|--------------|-----------|
| kaolin       | 1332-58-7 |
| formaldehyde | 50-00-0   |

#### Pennsylvania Right To Know

|                             |             |
|-----------------------------|-------------|
| tribenuron-methyl (ISO)     | 101200-48-0 |
| thifensulfuron-methyl (ISO) | 79277-27-3  |
| kaolin                      | 1332-58-7   |
| sodium sulphate             | 7757-82-6   |

#### Maine Chemicals of High Concern

Product does not contain any listed chemicals

#### Vermont Chemicals of High Concern

Product does not contain any listed chemicals

#### Washington Chemicals of High Concern

|              |         |
|--------------|---------|
| formaldehyde | 50-00-0 |
|--------------|---------|

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### California Prop. 65

WARNING: This product can expose you to chemicals including kaolin, formaldehyde, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### California Permissible Exposure Limits for Chemical Contaminants

|        |           |
|--------|-----------|
| kaolin | 1332-58-7 |
|--------|-----------|

### California Regulated Carcinogens

|        |           |
|--------|-----------|
| kaolin | 1332-58-7 |
|--------|-----------|

### The ingredients of this product are reported in the following inventories:

|       |   |
|-------|---|
| TCSI  | : Not in compliance with the inventory                        |
| TSCA  | : Product contains substance(s) not listed on TSCA inventory. |
| AIIC  | : Not in compliance with the inventory                        |
| ENCS  | : Not in compliance with the inventory                        |
| ISHL  | : Not in compliance with the inventory                        |
| KECI  | : Not in compliance with the inventory                        |
| PICCS | : Not in compliance with the inventory                        |
| IECSC | : Not in compliance with the inventory                        |
| NZIoC | : Not in compliance with the inventory                        |
| TECI  | : Not in compliance with the inventory                        |

### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

### FIFRA information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

### CAUTION

Causes eye irritation, Avoid contact with skin, eyes and clothing., Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

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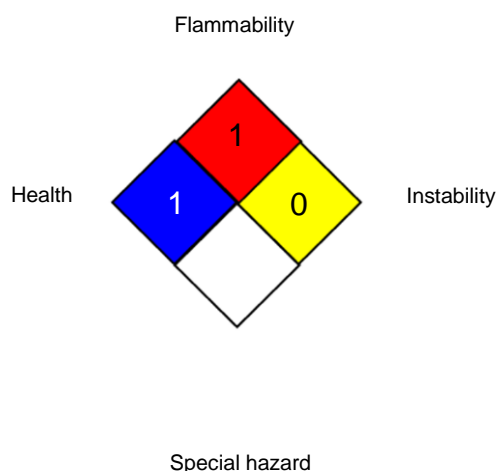
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### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA 704:



0 No health threat, 1 Slightly Hazardous, 2 Hazardous, 3 Extreme danger, 4 Deadly

##### HMIS® IV:

|                 |   |   |
|-----------------|---|---|
| HEALTH          | * | 2 |
| FLAMMABILITY    |   | 1 |
| PHYSICAL HAZARD |   | 0 |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

|                 |   |   |
|-----------------|---|---|
| ACGIH           | : | USA. ACGIH Threshold Limit Values (TLV)   |
| NIOSH REL       | : | USA. NIOSH Recommended Exposure Limits  |
| OSHA P0         | : | USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)                        |
| OSHA Z-1        | : | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants          |
| ACGIH / TWA     | : | 8-hour, time-weighted average   |
| NIOSH REL / TWA | : | Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| OSHA P0 / TWA   | : | 8-hour time weighted average  |
| OSHA Z-1 / TWA  | : | 8-hour time weighted average  |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dan-

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gerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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End of Material Safety Data Sheet