

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	02/12/2024	50000143	Date of first issue: 02/01/2018

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### SECTION 1. IDENTIFICATION

#### Product identifier

**Product name** Upbeet® Herbicide

#### Other means of identification

**Product code** 50000143

#### 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.

#### Details of the supplier of the safety data sheet

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

#### 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)**

Carcinogenicity : Category 2

#### **GHS label elements**

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H351 Suspected of causing cancer.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version 1.1      Revision Date: 02/12/2024      SDS Number: 50000143      Date of last issue: -  
Date of first issue: 02/01/2018

Precautionary Statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P280 Wear protective gloves, protective clothing, eye protection and face protection.

**Response:**  
P314 Get medical attention if you feel unwell.

**Storage:**  
P405 Store locked up.

**Disposal:**  
P501 Dispose of contents and 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)
triflusulfuron-methyl	126535-15-7	50
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	14807-96-6	>= 10 - < 20
sucrose	57-50-1	>= 10 - < 20

Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

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

If inhaled : Remove to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.

In case of skin contact : If on clothes, remove clothes.  
If on skin, rinse well with water.  
Wash off with soap and plenty of water.  
Get medical attention if irritation develops and persists.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	02/12/2024	50000143	Date of first issue: 02/01/2018

---

- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.
- If swallowed : Obtain medical attention.  
If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.  
Rinse mouth with water.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : Possibly irritation  
Generally, sulphonylurea herbicides cause lethargy, confusion, dizziness, seizures and coma on ingestion.  
Suspected of causing cancer.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing  
Avoid inhalation, ingestion and contact with skin and eyes.  
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : Treat symptomatically.
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### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Thermal decomposition can lead to release of irritating gases and vapors.  
Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulfur oxides  
Fluorine compounds
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Further information : If it can be safely done, move undamaged containers away from the fire.
- Standard procedure for chemical fires.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	02/12/2024	50000143	Date of first issue: 02/01/2018

---

Special protective equipment for fire-fighters : Use personal protective equipment.

Firefighters should wear protective clothing and self-contained breathing apparatus.

Wear self-contained breathing apparatus for firefighting if necessary.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
If it can be safely done, stop the leak.  
Keep people away from and upwind of spill/leak.  
Remove all sources of ignition.  
Immediately evacuate personnel to safe areas.  
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.

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 : Never return spills in original containers for re-use.  
Pick up and transfer to properly labeled containers without creating dust.

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### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Avoid dust formation.  
Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapors/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version 1.1      Revision Date: 02/12/2024      SDS Number: 50000143      Date of last issue: -  
Date of first issue: 02/01/2018

Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

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.  
Observe label precautions.

Further information on storage conditions : The product is stable under normal conditions of warehouse storage (0 - 40°C). Protect from frost and extreme heat.

Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. A warning sign reading "POISON" is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

Recommended storage temperature : 41 - 86 °F / 5 - 30 °C

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

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	14807-96-6	TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (respirable dust fraction)	2 mg/m <sup>3</sup>	OSHA P0
		TWA (Respirable)	2 mg/m <sup>3</sup>	NIOSH REL
		TWA	0.1 fibres per cubic centimeter	ACGIH
		TWA (Respirable particulate matter)	2 mg/m <sup>3</sup>	ACGIH
sucrose	57-50-1	TWA	10 mg/m <sup>3</sup>	ACGIH
		TWA (Respirable)	5 mg/m <sup>3</sup>	NIOSH REL

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version 1.1      Revision Date: 02/12/2024      SDS Number: 50000143      Date of last issue: -  
Date of first issue: 02/01/2018

	TWA (total)	10 mg/m3	NIOSH REL
	TWA (total dust)	15 mg/m3	OSHA Z-1
	TWA (respirable fraction)	5 mg/m3	OSHA Z-1
	TWA (Total dust)	15 mg/m3	OSHA P0
	TWA (respirable dust fraction)	5 mg/m3	OSHA P0

### Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

Filter type : Dust/mist/aerosol

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

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  
Wear face-shield and protective suit for abnormal processing problems.

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.  
Wear suitable protective equipment.  
When using do not eat, drink or smoke.  
In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	02/12/2024	50000143	Date of first issue: 02/01/2018

---

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands and face before breaks and immediately after handling the product.  
General industrial hygiene practice.  
Do not breathe dust.  
Avoid contact with skin, eyes and clothing.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: solid
Form	: powder
Color	: brown
Odor	: odorless
Odor Threshold	: No data available
pH	: 8.6 Concentration: 1 %
Melting point/freezing point	: Decomposition
Boiling point/boiling range	: Decomposition
Flash point	: Not applicable
Evaporation rate	: Not available for this mixture.
Flammability (solid, gas)	: Does not sustain combustion.
Self-ignition	: > 284 °F / > 140 °C not auto-flammable
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapor pressure	: Not available for this mixture.
Relative vapor density	: not determined

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	02/12/2024	50000143	Date of first issue: 02/01/2018

---

Relative density	:	No data available
Density	:	No data available
Bulk density	:	0.73 g/m3 loose 0.79 g/m3 packed
Solubility(ies) Water solubility	:	Miscible
Partition coefficient: n-octanol/water	:	Not available for this mixture.
Autoignition temperature	:	No data available
Decomposition temperature	:	Not available for this mixture.
Viscosity Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	not determined
Explosive properties	:	Not explosive
Oxidizing properties	:	The product is not oxidizing.
Surface tension	:	Not applicable
Molecular weight	:	Not applicable
Minimum ignition energy	:	250 - 500 mJ
Particle size	:	No data available

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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	:	Dust may form explosive mixture in air. No decomposition if stored and applied as directed.
Conditions to avoid	:	Heat, flames and sparks.  Avoid extreme temperatures. Avoid dust formation. Heating of the mixture may evolve harmful and irritant vapours.
Incompatible materials	:	Avoid strong acids, bases, and oxidizers.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	02/12/2024	50000143	Date of first issue: 02/01/2018

Hazardous decomposition products : Stable under recommended storage conditions.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

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

#### Product:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 6.1 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The component/mixture is minimally toxic after single contact with skin.

#### Components:

##### **triflusulfuron-methyl:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5.1 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Method: OECD Test Guideline 402

##### **Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):**

Acute oral toxicity : LD0 (Rat, male): > 5,000 mg/kg  
Method: OECD Test Guideline 423  
Remarks: no mortality

Acute inhalation toxicity : LC0 (Rat, male and female): > 2.1 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Remarks: no mortality

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	02/12/2024	50000143	Date of first issue: 02/01/2018

---

Acute dermal toxicity : LD0 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: no mortality

### **sucrose:**

Acute oral toxicity : LD50 (Rat): 29,700 mg/kg

### **Skin corrosion/irritation**

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

#### **Product:**

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

#### **Components:**

##### **triflusulfuron-methyl:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

##### **Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):**

Species : reconstructed human epidermis (RhE)  
Result : No skin irritation

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

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

#### **Product:**

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

#### **Components:**

##### **triflusulfuron-methyl:**

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

##### **Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):**

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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	02/12/2024	50000143	Date of first issue: 02/01/2018

---

### 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:

Test Type	:	Maximization Test
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Animal test did not cause sensitization by skin contact.
GLP	:	yes

#### Components:

##### triflusulfuron-methyl:

Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitization.

##### Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):

Test Type	:	Maximization Test
Routes of exposure	:	Dermal
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitization.

Routes of exposure	:	Inhalation
Species	:	Rat
Result	:	Does not cause respiratory sensitization.

### Germ cell mutagenicity

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

#### Product:

Germ cell mutagenicity - Assessment	:	Contains no ingredient listed as a mutagen
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#### Components:

##### triflusulfuron-methyl:

Genotoxicity in vitro	:	Test Type: Ames test Result: negative
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Germ cell mutagenicity - Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.
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##### Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version 1.1      Revision Date: 02/12/2024      SDS Number: 50000143      Date of last issue: -  
Date of first issue: 02/01/2018

---

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Result: negative

Test Type: gene mutation test  
Method: QSAR  
Result: negative

Test Type: reverse mutation assay  
Result: negative

Genotoxicity in vivo : Test Type: dominant lethal test  
Species: Rat (male)  
Application Route: Oral  
Result: negative

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

### Carcinogenicity

Suspected of causing cancer.

#### Components:

##### **triflusulfuron-methyl:**

Carcinogenicity - Assessment : The observed tumors do not appear to be relevant for men.

##### **Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):**

Species : Rat, male and female  
Application Route : Oral  
Exposure time : 101 days  
Dose : 100 mg/kg bw/day  
NOAEL : 100 mg/kg bw/day  
Method : OECD Test Guideline 453  
Result : negative  
Target Organs : Stomach  
Tumor Type : Leiomyosarcoma

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

**IARC**      Group 1: Carcinogenic to humans  
Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)      14807-96-6

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

**NTP**      Known to be human carcinogen  
Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)      14807-96-6  
(Silica, Crystalline (Respirable Size))

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version 1.1      Revision Date: 02/12/2024      SDS Number: 50000143      Date of last issue: -  
Date of first issue: 02/01/2018

---

### Reproductive toxicity

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

#### Product:

Reproductive toxicity - Assessment : Contains no ingredient listed as toxic to reproduction

#### Components:

##### **Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):**

Effects on fertility : Species: Rabbit, female  
Application Route: Oral  
Dose: 9, 42, 195, 900 mg/kg bw/day  
General Toxicity Parent: NOAEL: > 900 mg/kg body weight  
General Toxicity F1: NOAEL: > 900 mg/kg body weight  
Result: negative

Effects on fetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat  
Application Route: Oral  
Dose: 0, 16, 74, 350, 1600 mg/kg bw/day  
Duration of Single Treatment: 20 d  
General Toxicity Maternal: NOAEL: >= 1,600 mg/kg bw/day  
Embryo-fetal toxicity.: NOAEL: 1,600 mg/kg bw/day  
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

### STOT-single exposure

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

#### Product:

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

#### Components:

##### **triflurosulfuron-methyl:**

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

##### **Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):**

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

### STOT-repeated exposure

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

#### Product:

Assessment : The substance or mixture is not classified as specific target

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	02/12/2024	50000143	Date of first issue: 02/01/2018

---

organ toxicant, repeated exposure.

### Components:

#### **triflusulfuron-methyl:**

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

### **Repeated dose toxicity**

### Components:

#### **Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):**

Species : Rat, male and female  
NOAEL : 100 mg/kg  
Application Route : Oral - feed  
Exposure time : 101 d  
Dose : 100 mg/kg bw/day

Species : Rat, male and female  
NOAEL : 2 mg/m<sup>3</sup>  
LOAEL : 6 mg/m<sup>3</sup>  
Application Route : inhalation (dust/mist/fume)  
Test atmosphere : dust/mist  
Exposure time : 20 d  
Dose : 0, 2, 6, 18 mg/m<sup>3</sup>

### **Aspiration toxicity**

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

### Product:

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

### Components:

#### **triflusulfuron-methyl:**

No aspiration toxicity classification

### **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.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	02/12/2024	50000143	Date of first issue: 02/01/2018

---

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Product:

- Toxicity to fish : LC50 (Fish): 150 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 1,200 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.430 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes
- EC50 (Lemna gibba (duckweed)): 0.0043 mg/l  
Exposure time: 14 d  
Method: ASTM E 1415-91  
GLP: yes
- Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg  
Exposure time: 14 d  
Method: OECD Test Guideline 207  
GLP: yes  
Remarks: (Data on the product itself)  
Information source: Internal study report
- Toxicity to terrestrial organisms : LD50 (Apis mellifera (bees)): > 100 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Method: OECD Test Guideline 213  
GLP: yes  
Remarks: Information source: Internal study report
- LD50 (Apis mellifera (bees)): > 100 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity  
Method: OECD Test Guideline 214  
GLP: yes  
Remarks: Information source: Internal study report

#### Ecotoxicology Assessment

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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version 1.1      Revision Date: 02/12/2024      SDS Number: 50000143      Date of last issue: -  
Date of first issue: 02/01/2018

---

### Components:

#### **triflusulfuron-methyl:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 730 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 884 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.5 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- ErC50 (Lemna gibba (gibbous duckweed)): 0.0035 mg/l  
Exposure time: 14 h  
Method: ASTM E 1415-91
- EC50 (green algae): 0.62 mg/l  
Exposure time: 98 h
- Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 210 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 204
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 11 mg/l  
Exposure time: 21 d
- Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg  
Exposure time: 14 d
- Toxicity to terrestrial organisms : LC50 (Colinus virginianus (Bobwhite quail)): > 2,250 mg/kg  
Method: EPA OPP 71-1
- LC50 (Anas platyrhynchos (Mallard duck)): > 5,620 mg/kg  
Method: EPA OPP 71-1
- LD50 (Apis mellifera (bees)): > 25 µg/bee  
End point: Acute contact toxicity

#### **Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):**

- Toxicity to fish : LC50 (Fish): 89,581.016 mg/l  
Exposure time: 96 h  
Method: QSAR
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 36,812.359 mg/l  
Exposure time: 48 h  
Method: QSAR
- Toxicity to algae/aquatic : NOEC (green algae): 918.089 mg/l

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	02/12/2024	50000143	Date of first issue: 02/01/2018

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plants

Exposure time: 30 d  
Method: QSAR

EC50 (green algae): 7,202.7 mg/l  
Exposure time: 96 h  
Method: QSAR

Toxicity to fish (Chronic toxicity) : NOEC (Fish): 1,412.648 mg/l  
Exposure time: 30 d  
Method: QSAR

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia): 1,459.798 mg/l  
Exposure time: 30 d  
Method: QSAR

### **sucrose:**

Toxicity to fish : Remarks: No data available

### **Persistence and degradability**

#### **Product:**

Biodegradability : Result: Not readily biodegradable.  
Remarks: Estimation based on data obtained on active ingredient.  
Product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.

#### **Components:**

##### **triflusulfuron-methyl:**

Biodegradability : Result: Not readily biodegradable.

Stability in water : Remarks: Hydrolyzes readily.

##### **sucrose:**

Biodegradability : Remarks: No data available

### **Bioaccumulative potential**

#### **Product:**

Bioaccumulation : Remarks: Does not bioaccumulate.  
Estimation based on data obtained on active ingredient.

#### **Components:**

##### **triflusulfuron-methyl:**

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n- : log Pow: 0.96 (77 °F / 25 °C)

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	02/12/2024	50000143	Date of first issue: 02/01/2018

octanol/water

pH: 7

log Pow: 2.3 (77 °F / 25 °C)

pH: 5

log Pow: -0.07 (77 °F / 25 °C)

pH: 9

### Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):

Bioaccumulation

: Bioconcentration factor (BCF): 3.16  
Method: QSAR

Partition coefficient: n-octanol/water

: log Pow: -9.4 (77 °F / 25 °C)  
pH: 7  
Method: QSAR

### Mobility in soil

#### Product:

Distribution among environmental compartments

: Remarks: Moderately mobile in soil at low pH.  
Very mobile at high pH.  
Estimation based on data obtained on active ingredient.

#### Components:

#### triflusulfuron-methyl:

Distribution among environmental compartments

: Remarks: Moderately mobile in soil at low pH.  
Very mobile at high pH.

### Other adverse effects

#### Product:

Ozone-Depletion Potential

: Regulation: 40 CFR Protection of Environment; Part 82 Protection 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.  
Do not apply where/when conditions favour runoff.  
See product label for additional application instructions relating to environmental precautions.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	02/12/2024	50000143	Date of first issue: 02/01/2018

### 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.  
Do not re-use empty containers.  
Packaging that is not properly emptied must be disposed of as the unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	02/12/2024	50000143	Date of first issue: 02/01/2018

---

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

Not regulated as a dangerous good

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.

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## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### 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** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### 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

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	02/12/2024	50000143	Date of first issue: 02/01/2018

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

Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	14807-96-6
sucrose	57-50-1

#### Pennsylvania Right To Know

triflurosulfuron-methyl	126535-15-7
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	14807-96-6
Lignin, alkali, reaction products with formaldehyde and sodium sulfite	105859-97-0
sucrose	57-50-1

#### 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

Product does not contain any listed chemicals

#### California Prop. 65

WARNING: This product can expose you to chemicals including Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>), 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 List of Hazardous Substances

Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	14807-96-6
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#### California Permissible Exposure Limits for Chemical Contaminants

Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	14807-96-6
sucrose	57-50-1

#### California Regulated Carcinogens

Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	14807-96-6
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#### The ingredients of this product are reported in the following inventories:

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
AIIC	: Not in compliance with the inventory
DSL	: This product contains the following components that are not on the Canadian DSL nor NDSL.

METHYL 2-({[4-(DIMETHYLAMINO)-6-(2,2,2-TRIFLUOROETHOXY)-1,3,5-TRIAZIN-2-YL]CARBAMOYL})SULFAMOYL-3-METHYLBENZOATE

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version 1.1      Revision Date: 02/12/2024      SDS Number: 50000143      Date of last issue: -  
Date of first issue: 02/01/2018

Chlorite-group minerals

dolomite

- 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

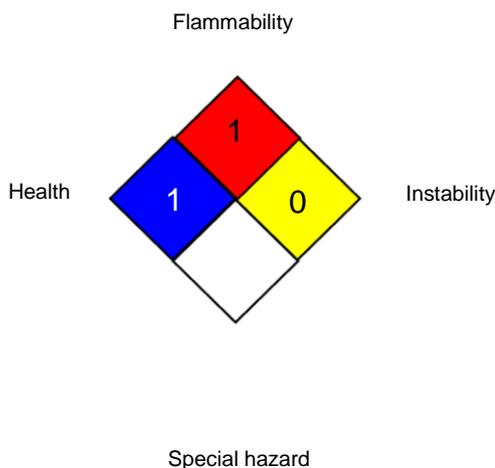
No substances are subject to a Significant New Use Rule.

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

## 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	/	1
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)

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	02/12/2024	50000143	Date of first issue: 02/01/2018

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
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
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
OSHA Z-3 / 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 Dangerous 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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# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Upbeet® Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	02/12/2024	50000143	Date of first issue: 02/01/2018

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End of Material Safety Data Sheet