

SAFETY DATA SHEET



Thifensulfuron 50 SG MUP

Version	Revision Date:	SDS Number:	Date of last issue: 05/12/2022
1.3	05/12/2022	50001033	Date of first issue: 03/01/2018

SECTION 1. IDENTIFICATION

Product identifier

Product name Thifensulfuron 50 SG MUP

Other means of identification

Product code 50001033

Chemical nature Mixture

Product Registration Number PCP # 28809

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 of Canada Ltd
6755 Mississauga Road, Suite 204
Mississauga, ON L5N 7Y2
Canada
Phone (AgHotline): 1-833-FMC-PPAC (1-833-362-7722),
Web: <https://ag.fmc.com/ca/en>
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)

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical nature : Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
thifensulfuron-methyl (ISO)	thifensulfuron-methyl (ISO)	79277-27-3	50
sodium carbonate	sodium carbonate	497-19-8	$\geq 10 - < 30$ *

* Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

- General advice : If you feel unwell, seek medical advice (show the label where possible).
Do not leave the victim unattended.
Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.
- In case of skin contact : Get medical attention if irritation develops and persists.
Wash clothing before reuse.
Take off all contaminated clothing immediately.
Wash off immediately with soap and plenty of water.
- In case of eye contact : If eye irritation persists, consult a specialist.
Keep eye wide open while rinsing.
In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- If swallowed : If swallowed, call a poison control center or doctor immediately.
Rinse mouth with water.
- Most important symptoms and effects, both acute and delayed : None known.
- Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Dry chemical, CO₂, water spray or regular foam.
- Unsuitable extinguishing media : High volume water jet
- Hazardous combustion products : Carbon oxides
Sulfur oxides

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Hazardous combustion products

- Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.
If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated.
Use a water spray to cool fully closed containers.
Dike runoff from fire control activities for later disposal.
If it can be safely done, move undamaged containers away from the fire.
- Special protective equipment for fire-fighters : Exposure to decomposition products may be a hazard to health.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.
Keep people away from and upwind of spill/leak.
Use personal protective equipment.
Do not touch or walk through the spilled material.
If it can be safely done, stop the leak.
For disposal considerations see section 13.
Mark the contaminated area with signs and prevent access to unauthorized personnel.
Never return spills in original containers for re-use.
- Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.
Clean contaminated floors and objects thoroughly while observing environmental regulations.
Prevent further leakage or spillage if safe to do so.
Do not allow uncontrolled discharge of product into the environment.
Do not allow contact with soil, surface or ground water.
Do not let product enter drains.
- Methods and materials for containment and cleaning up : Clean contaminated surface thoroughly.
Sweep and collect the leakage in a sealed container.
Sweep up and collect the leakage in a dry sealed container.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Never return spills in original containers for re-use.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Use only in area provided with appropriate exhaust ventilation.
Prepare the working solution as given on the label(s) and/or the user instructions.
Take care to avoid waste and spillage when weighing, loading and mixing the product.
Wear personal protective equipment.

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Conditions for safe storage : Keep container closed when not in use.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Store in original container.
Store in a place accessible by authorized persons only.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

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.

Eye protection : Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.
Ensure that eyewash stations and safety showers are close to the workstation location.
Wear safety glasses with side shields or goggles.

Skin and body protection : Remove and wash contaminated clothing before re-use.
Wear appropriate chemical resistant clothing to prevent skin contact depending on the extent of exposure. During most normal work situations where exposure to the material cannot be avoided for a limited time span, waterproof pants and apron of chemical resistant material or coveralls of polyethylene (PE) will be sufficient. Coveralls of PE must be discarded after use if contaminated. In cases of excessive or prolonged exposure, coveralls of barrier laminate may be required.

Protective measures : Wear suitable protective equipment.
Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : granules

Color : light brown

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Odor	:	mild
pH	:	9.2 (25 °C) Concentration: 10 g/l
Melting point/range	:	ca. 182 °C
Flash point	:	Not applicable
Flammability (solid, gas)	:	The product is not flammable.
Lower explosion limit / Lower flammability limit	:	0.1 - 0.25 g/l
Bulk density	:	696 kg/m ³ packed
Solubility(ies) Water solubility	:	soluble
Viscosity Viscosity, dynamic	:	No data available
Explosive properties	:	Not explosive

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No hazards to be specially mentioned. Stable under recommended storage conditions.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	None reasonably foreseeable.
Conditions to avoid	:	Protect from frost, heat and sunlight.
Incompatible materials	:	No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.3 mg/l Exposure time: 4 h Test atmosphere: dust/mist

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Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Species	: Rabbit
Assessment	: Not classified as irritant
Result	: No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species	: Rabbit
Result	: No eye irritation
Assessment	: Not classified as irritant

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Species	: Guinea pig
Assessment	: Not a skin sensitizer.
Result	: Animal test did not cause sensitization by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Components:

thifensulfuron-methyl (ISO):

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

Genotoxicity in vitro	: Test Type: reverse mutation assay Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Result: negative Remarks: Based on data from similar materials
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Germ cell mutagenicity -	: Weight of evidence does not support classification as a germ
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Assessment cell mutagen.

Carcinogenicity

Not classified based on available information.

Components:

thifensulfuron-methyl (ISO):

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

Reproductive toxicity

Not classified based on available information.

Components:

sodium carbonate:

Effects on fetal development : Species: Rat
Application Route: Oral
Dose: 2.45, 11.4, 52.9, 245 milligram per kilogram
Duration of Single Treatment: 6 - 15 d
General Toxicity Maternal: NOAEL: > 245 mg/kg body weight
Teratogenicity: NOAEL: > 245 mg/kg body weight
Result: negative

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

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Components:

sodium carbonate:

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

Repeated dose toxicity

Components:

sodium carbonate:

Species : Rat, male and female
NOAEL : > 0.01 mg/kg
Application Route : inhalation (dust/mist/fume)
Test atmosphere : dust/mist

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Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : Information presented in section 11 conforms to the requirements of the Hazardous Products Regulations (HPR) and WHMIS 2015. See Section 15 for applicable information conforming to the requirements of the Pest Management Regulatory Agency (PMRA).

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 120 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: EC50 (Lemna gibba (duckweed)): 0.00130 mg/l Exposure time: 14 d
Toxicity to soil dwelling organisms	: LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg Exposure time: 14 d Method: OECD Test Guideline 207 Remarks: Information source: Internal study report

Components:

thifensulfuron-methyl (ISO):

Toxicity to fish	: LC50 (Salmo gairdneri): 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 470 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: IC50 (green algae): 0.0159 mg/l Exposure time: 72 h EC50 (Lemna minor (duckweed)): 1.3 µg/l
Toxicity to fish (Chronic toxicity)	: NOEC (Salmo gairdneri): 250 mg/l Exposure time: 28 d
Toxicity to daphnia and other aquatic invertebrates (Chronic)	: NOEC (Daphnia magna (Water flea)): 100 mg/l Exposure time: 21 d

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ic toxicity)

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

Toxicity to terrestrial organisms : LD50 (*Colinus virginianus* (Bobwhite quail)): > 5,620 ppm

LD50 (*Anas platyrhynchos* (Mallard duck)): > 2,510 mg/kg

LD50 (*Apis mellifera* (bees)): > 7.1 µg/bee

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

sodium carbonate:

Toxicity to fish : LC50 (*Lepomis macrochirus* (Bluegill sunfish)): 300 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Ceriodaphnia* (water flea)): 200 mg/l
Exposure time: 48 h
Test Type: semi-static test

Persistence and degradability

Components:

sodium carbonate:

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

Bioaccumulative potential

Components:

thifensulfuron-methyl (ISO):

Bioaccumulation : Remarks: Does not bioaccumulate.

sodium carbonate:

Bioaccumulation : Remarks: Does not bioaccumulate.

Mobility in soil

Components:

thifensulfuron-methyl (ISO):

Distribution among environmental compartments : Remarks: Mobile in soils

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Other adverse effects

Product:

Additional ecological information : Environmental hazards
Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.
Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.
Do not apply where/when conditions favour runoff.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Send to a licensed waste management company.
Uncontrolled disposal or recycling of this packaging is not permitted and can be dangerous. Do not contaminate ponds, waterways or ditches with chemical or used container.
Do not dispose of waste into sewer.
Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging : Dispose of contents/ container to a local hazardous waste disposal facility.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Rinse empty containers with water and use the rinse-water to prepare the working solution.
Packaging that is not properly emptied must be disposed of as the unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

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

IATA-DGR

UN/ID No. : UN 3077
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.
(Thifensulfuron-methyl)
Class : 9
Packing group : III
Labels : Miscellaneous
Packing instruction (cargo) : 956

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aircraft)
Packing instruction (passenger aircraft) : 956
Environmentally hazardous : yes

IMDG-Code

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(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

TDG

Not regulated as a dangerous good

Special precautions for user

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

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
DSL	: This product contains the following components that are not on the Canadian DSL nor NDSL. METHYL 3-[[[4-METHOXY-6-METHYL-1,3,5-TRIAZIN-2-YL)CARBAMOYL]SULFAMOYL]THIOPHENE-2-CARBOXYLATE D-Glucopyranose, 4-O-.beta.-D-galactopyranosyl-, monohydrate
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

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IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

TECI : Not in compliance with the inventory

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

Disclaimer

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. You can contact FMC Corporation to insure that this document is the most current available from FMC Corporation. No warranty of fit-

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End of Material Safety Data Sheet