# SAFETY DATA SHEET

Weed B Gon Flex™ Herbicide

SDS #: 6304-2-A **Revision date: 2021-02-12** 

> Format: NA Version 1.04



### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

**Product Name** Weed B Gon Flex<sup>TM</sup> Herbicide

Other means of identification

6304-2-A Product Code(s)

SULFENTRAZONE (FMC 97285): **Synonyms** 

2',4'-dichloro-5'-(4-difluoromethyl-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl)

methanesulfonanilide (IUPAC name);

N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-

1,2,4-triazol-1-yl]phenyl] methanesulfonamide (CAS name)

Active Ingredient(s) Sulfentrazone

Triazolinones **Chemical Family** 

Recommended use of the chemical and restrictions on use

Recommended Use: Herbicide

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

Supplier Address

**FMC** Corporation 2929 Walnut Street Philadelphia, PA 19104

(215) 299-6000 (General Information)

SDS-Info@fmc.com (E-Mail General Information)

**Emergency telephone number** 

Medical Emergencies:

1 800 / 331-3148 (U.S.A. & Canada)

1 651 / 632-6793 (All Other Countries - Collect)

For leak, fire, spill or accident emergencies, call: 1 800 / 424-9300 (CHEMTREC - U.S.A.) 1 703 / 741-5970 (CHEMTREC - International) 1 703 / 527-3887 (CHEMTREC - Alternate)

## 2. HAZARDS IDENTIFICATION

### Classification

### **OSHA Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Dusts/Mists) Category 4

Version 1.04

Specific target organ toxicity (repeated exposure)

Category 2

### GHS Label elements, including precautionary statements

#### **EMERGENCY OVERVIEW**

#### Warning

#### **Hazard Statements**

H332 - Harmful if inhaled

H373 - May cause damage to organs through prolonged or repeated exposure



### **Precautionary Statements - Prevention**

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

## **Precautionary Statements - Response**

P314 - Get medical advice/ attention if you feel unwell

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P312 - Call a POISON CENTER or doctor if you feel unwell

#### **Precautionary Statements - Disposal**

P501 - Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

### Other Information

Very toxic to aquatic life.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### **Chemical Family**

Triazolinones.

Chemical name	CAS-No	Weight %
Sulfentrazone	122836-35-5	39.7
Propylene glycol	57-55-6	5-10
Toluene	108-88-3	1-5
n-Butanol	71-36-3	1-5

Synonyms are provided in Section 1.

## 4. FIRST AID MEASURES

**Eye Contact** Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove

contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison

control center or doctor for further treatment advice.

Skin Contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

#### Weed B Gon Flex™ Herbicide

SDS #: 6304-2-A

Revision date: 2021-02-12 Version 1.04

minutes. Call a poison control center or doctor for further treatment advice.

**Inhalation** Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial

respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for

further treatment advice.

Ingestion Call a poison control center or doctor immediately for treatment advice. Have person sip a

glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

None known.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

surrounding environment.

Small Fire Dry chemical. Carbon dioxide (CO<sub>2</sub>).

Large Fire Water spray. Foam.

**Unsuitable extinguishing media** Avoid heavy hose streams.

**Specific Hazards Arising from the** 

Chemical

None known

Hazardous Combustion Products See Section 10.

**Explosion data** 

Sensitivity to Mechanical Impact

Sensitivity to Static Discharge No information available.

Protective equipment and precautions for firefighters

Isolate fire area. Evaluate upwind. As in any fire, wear self-contained breathing apparatus

and full protective gear.

No information available.

# 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing,

gloves and eye/face protection. For personal protection see section 8.

Other For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1

"Product and Company Identification" above.

Environmental Precautions Keep people and animals away from and upwind of spill/leak. Keep material out of lakes,

streams, ponds, and sewer drains.

Methods for Containment Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and

transfer to containers for later disposal.

**Methods for cleaning up**Clean and neutralize spill area, tools and equipment by washing with water and soap.

Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior

to recycling or disposal. Dispose of waste as indicated in Section 13.

# 7. HANDLING AND STORAGE

**Handling** Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

Storage Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces

and sources of ignition. Keep out of reach of children and animals. Store in original

SDS #: 6304-2-A

Revision date: 2021-02-12 Version 1.04

container.

Packaging material Must only be kept in original packaging.

Incompatible products None known

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Toluene (108-88-3)	TWA: 20 ppm	TWA: 200 ppm Ceiling: 300 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m³ STEL: 150 ppm STEL: 560 mg/m³	Mexico: TWA 20 ppm
n-Butanol (71-36-3)	TWA: 20 ppm	TWA: 100 ppm TWA: 300 mg/m <sup>3</sup>	IDLH: 1400 ppm Ceiling: 50 ppm Ceiling: 150 mg/m³	Mexico: TWA 20 ppm
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Propylene glycol (57-55-6)	-	-	TWA: 10 mg/m³ aerosol only  TWA: 50 ppm aerosol and vapor  TWA: 155 mg/m³ aerosol and vapor	-
Toluene (108-88-3)	TWA: 20 ppm	TWA: 50 ppm TWA: 188 mg/m³ Skin	TWA: 20 ppm	TWA: 50 ppm TWA: 188 mg/m³ Skin
n-Butanol (71-36-3)	TWA: 15 ppm Ceiling: 30 ppm	Ceiling: 50 ppm Ceiling: 152 mg/m³ Skin	TWA: 20 ppm	TWA: 20 ppm TWA: 60 mg/m <sup>3</sup>

### **Appropriate engineering controls**

**Engineering measures** Apply technical measures to comply with the occupational exposure limits. When working in

confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for

breathing and wear the recommended equipment.

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection** If there is a potential for exposure to particles which could cause eye discomfort, wear

chemical goggles.

**Skin and Body Protection** Wear long-sleeved shirt, long pants, socks, and shoes.

Hand Protection Use protective gloves made of chemical materials such as nitrile or neoprene. Wash the

outside of gloves with soap and water before reuse. Check regularly for leaks.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Respiratory protection must be provided in

accordance with current local regulations.

Hygiene measures Clean water should be available for washing in case of eye or skin contamination. Wash

skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing

separately from regular household laundry.

Version 1.04

protective equipment suppliers. These recommendations apply to the product as supplied.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance Off-white Liquid

Physical State Liquid
Color Off-white
Odor Low Alcohol

Odor threshold No information available

pH 5.3-6.0 @ 20°C Melting point/freezing point Not applicable

Boiling Point/Range No information available

Flash point > 94 °C / > 201 °F Tag Closed Cup

Evaporation Rate No information available Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density

No information available
No information available
No information available

Relative density 10.0 lb/gal Specific gravity 1.206 @ 20°C Water solubility Soluble in water

No information available Solubility in other solvents No information available Partition coefficient **Autoignition temperature** No information available **Decomposition temperature** No information available Viscosity, kinematic No information available No information available Viscosity, dynamic **Explosive properties** No information available No information available Oxidizing properties No information available Molecular weight **Bulk density** No information available

# 10. STABILITY AND REACTIVITY

Reactivity Not applicable

Chemical Stability Stable.

Possibility of Hazardous Reactions None under normal processing.

**Hazardous polymerization** Hazardous polymerization does not occur.

Conditions to avoid Excessive heat Incompatible materials None known.

Hazardous Decomposition Products Carbon oxides (COx), Nitrogen oxides (NOx), Sulfur oxides, Hydrogen chloride, Hydrogen

fluoride.

### 11. TOXICOLOGICAL INFORMATION

#### **Product Information**

LD50 Oral 2084 mg/kg (rat)
LD50 Dermal > 2000 mg/kg (rabbit)
LC50 Inhalation (dust) > 2.72 mg/L 4 hr (rat)

SDS #: 6304-2-A

Revision date: 2021-02-12 Version 1.04

Serious eye damage/eye irritation

Skin corrosion/irritation Sensitization Slightly or non-irritating (rabbit). Slightly or non-irritating (rabbit).

Non-sensitizing.

Chemical name	nical name LD50 Oral		LC50 Inhalation (vapor)	
Propylene glycol (57-55-6)	20000 mg/kg(Rat)	20800 mg/kg(Rabbit)		
Toluene (108-88-3)	= 2600 mg/kg (Rat)	= 12000 mg/kg(Rabbit)	= 12.5 mg/L (Rat)4 h	
n-Butanol (71-36-3)	= 700 mg/kg (Rat) = 790 mg/kg (Rat)	= 3400 mg/kg (Rabbit)= 3402 mg/kg (Rabbit)	> 8000 ppm (Rat)4 h	

### Information on toxicological effects

**Symptoms** Signs of toxicity in laboratory animals given sulfentrazone included clonic convulsions,

ataxia, hypersensitivity to touch, chromorhinorrhea, abdominogenital staining, decreased

locomotion, lacrimation, nasal discharge, and squinting eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic toxicity Sulfentrazone: Prolonged exposure cause decreased hemoglobin content and hematocrit,

and increased spleen weight and splenic extramedullary hematopoiesis at high doses in

animal studies.

Mutagenicity Sulfentrazone: Not genotoxic in laboratory studies.

Carcinogenicity Sulfentrazone: No evidence of carcinogenicity from animal studies.

**Neurological effects**Sulfentrazone: Clinical signs of neurotoxicity in laboratory animals was observed at high

dose levels.

**Reproductive toxicity** Sulfentrazone: No toxicity to reproduction in animal studies.

**Developmental toxicity**Sulfentrazone: Fetal weight decreased; delayed skeletal ossification observed at maternally

non-toxic doses are reversible effects and a dose-response is established; malformations observed in fetuses at maternally toxic doses and consistent with the mode of action for protoporphyrongen oxidase inhibitors. Developmental toxicity testing and results were

generated for sulfentrazone with toluene present as an impurity.

STOT - single exposure

STOT - repeated exposure May cause d

May cause damage to organs through prolonged or repeated exposure. See listed target

organs below.

Not classified.

Target organ effects Sulfentrazone: Hematopoietic system.

**Neurological effects** Sulfentrazone: Clinical signs of neurotoxicity in laboratory animals was observed at high

dose levels.

**Aspiration hazard** No information available.

Chemical name	ACGIH	IARC	NTP	OSHA
Toluene		Group 3		
108-88-3				

### Legend:

IARC (International Agency for Research on Cancer)

Group 3 - Not classifiable as to its carcinogenicity to humans

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Sulfentrazone (122836-35-5)

**Version** 1.04

Active Ingredient(s)	Duration	Species	Value	Units
-	96 h LC50	Onchorhyncus mykiss	> 120	mg/L
	99 d NOAEC	Onchorhyncus mykiss	2.95	mg/L
	48 h EC50	Daphnia magna	60.4	mg/L
	21 d NOAEC	Daphnia magna	0.2	mg/L
	120 h EC50	Pseudokirchneriella	0.031	mg/L
		subcapitata		
	120 h EC50	Navivula pelliculosa	0.042	mg/L
	14-day EC50	Lemna gibba	0.0288	mg/L
		(duckweed)		
	14-d NOAEL	Lemna gibba	0.019	mg/L
		(duckweed)		

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other
			aquatic invertebrates
Toluene 108-88-3	72 h EC50: = 12.5 mg/L (Pseudokirchneriella subcapitata) static 96 h EC50: > 433 mg/L (Pseudokirchneriella subcapitata)	96 h LC50: 11.0 - 15.0 mg/L (Lepomis macrochirus) static 96 h LC50: 14.1 - 17.16 mg/L (Oncorhynchus mykiss) static 96 h LC50: 15.22 - 19.05 mg/L (Pimephales promelas) flow-through 96 h LC50: 5.89 - 7.81 mg/L (Oncorhynchus mykiss) flow-through 96 h LC50: 50.87 - 70.34 mg/L (Poecilia reticulata) static 96 h LC50: = 12.6 mg/L (Pimephales promelas) static 96 h LC50: = 28.2 mg/L (Poecilia reticulata) semi-static 96 h LC50: = 5.8 mg/L (Oncorhynchus mykiss) semi-static 96 h LC50: = 54 mg/L	48 h EC50: 5.46 - 9.83 mg/L (Daphnia magna) Static 48 h EC50: = 11.5 mg/L (Daphnia magna)
Sulfentrazone	32.6	(Oryzias latipes) static 94 mg/L&5.9	60.4 mg/L&0.51
122836-35-5	02.0	5 :g, 20010	5511g, 24515 !
Sodium Hydroxide 1310-73-2		96 h LC50: = 45.4 mg/L (Oncorhynchus mykiss) static	
Polyethylene glycol 25322-68-3		24 h LC50: > 5000 mg/L (Carassius auratus)	
Cyclomethicone 556-67-2		96 h LC50: > 1000 mg/L (Lepomis macrochirus) 96 h LC50: > 500 mg/L (Brachydanio rerio)	24 h EC50: = 25.2 mg/L (Daphnia magna)
n-Butanol 71-36-3	72 h EC50: > 500 mg/L (Desmodesmus subspicatus) 96 h EC50: > 500 mg/L (Desmodesmus subspicatus)	96 h LC50: 100000 - 500000 μg/L (Lepomis macrochirus) static 96 h LC50: 1730 - 1910 mg/L (Pimephales promelas) static 96 h LC50: = 1740 mg/L (Pimephales promelas) flow-through 96 h LC50: = 1910000 μg/L (Pimephales promelas) static	48 h EC50: 1897 - 2072 mg/L (Daphnia magna) Static 48 h EC50: = 1983 mg/L (Daphnia magna)

**Persistence and degradability** Sulfentrazone: Persistent. Does not readily hydrolyze.

**Bioaccumulation** Sulfentrazone: The substance does not have a potential for bioconcentration.

**Mobility** Sulfentrazone: Mobile, Has potential to reach ground water.

# 13. DISPOSAL CONSIDERATIONS

Waste disposal methods Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these

wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Proper personal protective equipment, as described in

Sections 7 and 8, must be worn while handling materials for waste disposal.

Contaminated containers and packages

Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

Version 1.04

### 14. TRANSPORT INFORMATION

**DOT** This material is not a hazardous material as defined by U.S. Department of Transportation

49 CFR Parts 100 through 185, unless shipped in bulk packaging. The classification below pertains to the shipment in bulk packaging [(>119 gal, liquid) or (882 lb, solid)].

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.(sulfentrazone)

Hazard class 9
Packing Group III

Marine Pollutant Sulfentrazone.

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (sulfentrazone), 9, III, Marine

pollutant

TDG Classification below is only applicable when shipped by vessel and is not applicable when

shipped by road or rail only.

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.(sulfentrazone)

Hazard class 9
Packing Group III

Marine Pollutant Sulfentrazone.

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (sulfentrazone), 9, III, Marine

pollutant

#### ICAO/IATA

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.(sulfentrazone)

Hazard class 9
Packing Group

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (sulfentrazone), 9, III, Marine

pollutant

IMDG/IMO

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.(sulfentrazone)

Hazard class 9
Packing Group III
EmS No. F-A, S-F
Environmental Hazards Sulfentrazone

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (sulfentrazone), 9, III, Marine

pollutant

## 15. REGULATORY INFORMATION

# U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	CAS-No	Weight %	SARA 313 - Threshold Values %
Toluene - 108-88-3	108-88-3	1-5	1.0
n-Butanol - 71-36-3	71-36-3	1-5	1.0

### SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic health hazard Yes
Fire hazard No

Version 1.04

Sudden release of pressure hazard No Reactive Hazard No

#### **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Toluene 108-88-3	1000 lb	X	Х	X
Sodium Hydroxide 1310-73-2	1000 lb			X

### **CERCLA**

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Toluene	1000 lb	
108-88-3	454 kg	
Sodium Hydroxide	1000 lb	
1310-73-2	454 kg	
n-Butanol	5000 lb	
71-36-3	2270 kg	

### **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 moderate eye irritation. Harmful if inhaled, swallowed, or absorbed through skin.

This pesticide is toxic to non-target plants and aquatic invertebrates.

# **US State Regulations**

## **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical name	California Prop. 65
Toluene - 108-88-3	Developmental

### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Propylene glycol 57-55-6	X		X
Toluene 108-88-3	X	X	Х
n-Butanol 71-36-3	X	X	X

## **International Inventories**

Chemical name	TSCA	DSL	EINECS/ELINC	ENCS	China		AICS
	(United	(Canada)	S (Europe)	(Japan)	(IECSC)	(Philippines)	(Australia)

**SDS #**: 6304-2-A

Revision date: 2021-02-12 Version 1.04

	States)							
Propylene glycol 57-55-6	Х	Х	Х	Х	Х	Х	Х	Х
Toluene 108-88-3	Х	Х	Х	Х	Х	Х	Х	Х
n-Butanol 71-36-3	Х	Х	Х	Х	Х	Х	Х	Х

#### **CANADA**

Not applicable

# 16. OTHER INFORMATION

NFPA	Health Hazards 1	Flammability 1	Instability 0	Special Hazards -
HMIS	Health Hazards 1*	Flammability 1	Physical hazard 0	Personal Protection X

<sup>\*</sup>Indicates a chronic health hazard.

NFPA/HMIS Ratings Legend Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

**Revision date:** 2021-02-12

Reason for revision: SDS sections updated.

#### **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 fitness for any particular purpose, warranty of merchantability or any other warranty, expressed or implied, is made concerning the information provided herein. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. The user is responsible for determining whether the product is fit for a particular purpose and suitable for the user's conditions and methods of use. Since the conditions and methods of use are beyond the control of FMC Corporation, FMC Corporation expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

Prepared By:

**FMC** Corporation

FMC Logo - Trademark of FMC Corporation

© 2021 FMC Corporation. All Rights Reserved.

**End of Safety Data Sheet**