# SAFETY DATA SHEET

Blindside® Herbicide

SDS #: 6529-A

Revision date: 2015-04-13

Format: NA Version 1.01



# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

**Product Name** 

Blindside® Herbicide

Other means of identification

Product Code(s)

6529-A

Synonyms

SULFENTRAZONE (FMC 97285):

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);

; METSULFURON-METHYL: Benzoic acid,

2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-, methyl ester

Active Ingredient(s)

Sulfentrazone, Metsulfuron-methyl

**Chemical Family** 

Triazolinones; Sulfonylurea

# Recommended use of the chemical and restrictions on use

Recommended Use:

Herbicide

Restrictions on Use:

Use as recommended by the label

Manufacturer Address

FMC Corporation 1735 Market Street Philadelphia, PA 19103

(215) 299-6000 (General Information)

msdsinfo@fmc.com (E-Mail General Information)

Emergency telephone number

For leak, fire, spill or accident emergencies, call:

1 800 / 424 9300 (CHEMTREC - U.S.A.)

1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)

Medical Emergencies:

1800 / 331-3148 (PROSAR - U.S.A. & Canada)

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

# 2. HAZARDS IDENTIFICATION

#### Classification

# **OSHA Regulatory Status**

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

SDS #: 6529-A

Revision date: 2015-04-13

Version 1.01

Acute toxicity - Inhalation (Dusts/Mists)	Category 4	
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 with long lasting effects. May be harmful if swallowed.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Chemical Family**

Triazolinones; Sulfonylurea.

Chemical name	CAS-No	Weight %
Sulfentrazone	122836-35-5	60
Metsulfuron-methyl	74223-64-6	6
Kaolin	1332-58-7	10-15
Toluene	108-88-3	1-5
Crystalline silica, guartz	14808-60-7	0.1-1

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

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

SDS #: 6529-A

Revision date: 2015-04-13

Version 1.01

Inhalation

Move to fresh air. If person is not breathing, call 911 (within the U.S. and Canada) 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

Suitable Extinguishing Media

Carbon dioxide (CO<sub>2</sub>). Foam. Dry powder. Water spray.

Specific Hazards Arising from the

Finely dispersed particles can form explosive mixtures in air.

Chemical

Explosion data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge Not sensitive. Not sensitive.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

# 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Isolate and post spill area. 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** 

See Section 12 for additional Ecological Information.

**Methods for Containment** 

Sweep up and shovel into suitable containers for disposal.

Methods for cleaning up

Clean and neutralize spill area, tools and equipment by washing with bleach 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

Handle in accordance with good industrial hygiene and safety practice. 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

container.

Incompatible products

Oxidizing agents

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico

SDS #: 6529-A Revision date: 2015-04-13

Version 1.01

Kaolin	TWA: 2 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	Mexico: TWA 10 mg/m <sup>3</sup>
(1332-58-7)		TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	Mexico: STEL 20 mg/m <sup>3</sup>
Toluene	TWA: 20 ppm	TWA: 200 ppm	IDLH: 500 ppm	Mexico: TWA 50 ppm
(108-88-3)		Ceiling: 300 ppm	TWA: 100 ppm	Mexico: TWA 188 mg/m <sup>3</sup>
			TWA: 375 mg/m <sup>3</sup>	
			STEL: 150 ppm	
			STEL: 560 mg/m <sup>3</sup>	
Crystalline silica, quartz	TWA: 0.025 mg/m <sup>3</sup>	-	IDLH: 50 mg/m <sup>3</sup>	Mexico: TWA 0.1 mg/m <sup>3</sup>
(14808-60-7)	_		TWA: 0.05 mg/m <sup>3</sup>	
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Kaolin	TWA: 2 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>
(1332-58-7)			respirable	
Toluene	TWA: 20 ppm	TWA: 50 ppm	TWA: 20 ppm	TWA: 50 ppm
(108-88-3)		TWA: 188 mg/m <sup>3</sup>		TWA: 188 mg/m <sup>3</sup>
4		Skin		Skin
Crystalline silica, quartz	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.10 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>
(14808-60-7)	1000		respirable	

#### 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** 

Protective gloves

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.

**General information** 

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance Physical State Granules Solid

Color

No information available No information available No information available

Odor threshold

7.66

Melting point/freezing point

Not applicable

Boiling Point/Range

No information available

Flash point

Not applicable

Evaporation Rate Flammability (solid, gas)

No information available No information available

Flammability Limit in Air
Upper flammability limit:

NO INIOTHALION AVAILABLE

opper nammability limit:

No information available Page 4/10

Molecular weight

**Bulk density** 

SDS #: 6529-A

Revision date: 2015-04-13

Version 1.01

Lower flammability limit: No information available Vapor pressure No information available Vapor density No information available Density 37 - 38.3 lb/cu ft Specific gravity No information available Water solubility Dispersible in water Solubility in other solvents No information available Partition coefficient No information available Autoignition temperature No information available Decomposition temperature No information available Viscosity, kinematic No information available Viscosity, dynamic No information available **Explosive properties** No information available **Oxidizing properties** No information available

### 10. STABILITY AND REACTIVITY

Reactivity None under normal use conditions.

Chemical Stability Stable under recommended storage conditions.

No information available No information available

Possibility of Hazardous Reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid None known

Incompatible materials Oxidizing agents.

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

fluoride.

# 11. TOXICOLOGICAL INFORMATION

#### Product Information

 LD50 Oral
 3129 mg/kg (rat)

 LD50 Dermal
 > 5000 mg/kg (rat)

 LC50 Inhalation
 > 2.03 mg/L 4 hr (rat)

Serious eye damage/eye irritation

Skin corrosion/irritation Slightly

Moderately irritating (rabbit). Slightly irritating (rabbit).

Sensitization Non-sensitizing

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Metsulfuron-methyl (74223-64-6)	> 5 g/kg (Rat)		> 5 g/m³ (Rat) 4 h
Toluene (108-88-3)	= 2600 mg/kg (Rat)	= 12000 mg/kg(Rabbit)	= 12.5 mg/L (Rat) 4 h
Naphthalene sulfonic acid-formaldehyde condensate, sodium salt (9084-06-4)	= 3800 mg/kg (Rat)		
DISODIUM MALEATE (371-47-1)	= 3380 mg/kg (Rat)		
Crystalline silica, quartz (14808-60-7)	> 5000 mg/kg (Rat)		
Sodium sulfate (7757-82-6)	> 10000 mg/kg (Rat)		

SDS #: 6529-A Revision date: 2015-04-13

Version 1.01

### Information on toxicological effects

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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, Metsulfuron-methyl: Not genotoxic in laboratory studies.

Carcinogenicity
Sulfentrazone, Metsulfuron-methyl: 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, Metsulfuron-methyl: 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. Metsulfuron-methyl: Not

teratogenic in animal studies.

STOT - single exposure Not classified.

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

organs below.

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 108-88-3		Group 3		
Crystalline silica, quartz 14808-60-7	A2	Group 1	Known	Х

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3 - Not classifiable as to its carcinogenicity to humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

# 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Sulfentrazone (122836-3	5-5)			
Active Ingredient(s)	Duration	Species	Value	Units
Sulfentrazone	72 h EC50	Algae	32.8	mg/L
	48 h EC50	Crustacea	60.4	mg/L
	96 h LC50	Fish	94	mg/L
	21 d NOEC	Fish	5.9	mg/L
	21 d NOEC	Crustacea	0.51	mg/L

Metsulfuron-methyl (742	223-64-6)				
Active Ingredient(s)	Duration	Species	Value	Units	
Metsulfuron-methyl	48 h LC50	Daphnia	>150	mg/L	
	96 h LC50	Fish	>150	mg/L	
	EC50	Algae	0.36	μg/L	
	LD50 Dietary	Bobwhite quail	>5620	mg/kg	
	LD50 Dietary	Mallard duck	>2510	mg/kg	

SDS #: 6529-A Revision date: 2015-04-13

Version 1.01

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LD50	Bee	>25	μg/bee

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Toluene 108-88-3	96 h EC50: > 433 mg/L (Pseudokirchneriella subcapitata) 72 h EC50: = 12.5 mg/L (Pseudokirchneriella subcapitata) static	96 h LC50: 15.22 - 19.05 mg/L (Pimephales promelas) flow-through 96 h LC50: = 12.6 mg/L (Pimephales promelas) static 96 h LC50: 5.89 - 7.81 mg/L (Oncorhynchus mykiss) flow-through 96 h LC50: 14.1 - 17.16 mg/L (Oncorhynchus mykiss) static 96 h LC50: = 5.8 mg/L (Oncorhynchus mykiss) semi-static 96 h LC50: 11.0 - 15.0 mg/L (Lepomis macrochirus) static 96 h LC50: = 54 mg/L (Oryzias latipes) static 96 h LC50: = 28.2 mg/L (Poecilia reticulata) semi-static 96 h LC50: 50.87 - 70.34 mg/L (Poecilia reticulata) static	
Sodium sulfate 7757-82-6		96 h LC50: 13500 - 14500 mg/L (Pimephales promelas) 96 h LC50: > 6800 mg/L (Pimephales promelas) static 96 h LC50: = 13500 mg/L (Lepomis macrochirus) 96 h LC50: 3040 - 4380 mg/L (Lepomis macrochirus) static	48 h EC50: = 2564 mg/L (Daphnia magna)

Persistence and degradability Sulfentrazone: Persistent. Does not readily hydrolyze. Metsulfuron-methyl: Moderately

persistent. Does not readily hydrolyze.

Bioaccumulation Sulfentrazone, Metsulfuron-methyl: The substance does not have a potential for

bioconcentration.

Mobility Sulfentrazone, Metsulfuron-methyl: 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.

Containers must be disposed of in accordance with local, state and federal regulations.

Refer to the product label for container disposal instructions.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Toluene 108-88-3	U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151		
	Chemical name		California Hazardous	s Waste Status
	Toluene 108-88-3		Toxic Ignitabl	e

# 14. TRANSPORT INFORMATION

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

at 49 CFR Parts 100 through 185.

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

shipped by road or rail only.

UN/ID no UN3077

Proper Shipping Name Environmentally hazardous substance, solid, n.o.s.

Hazard class

SDS #: 6529-A

Revision date: 2015-04-13

Version 1.01

**Packing Group** 

III

Marine Pollutant

Sulfentrazone, Metsulfuron-methyl.

Description

UN3077, Environmentally hazardous substance, solid, n.o.s. (sulfentrazone,

metsulfuron-methyl), 9, PGIII, Marine Pollutant

ICAO/IATA

UN/ID no

UN3077

**Proper Shipping Name** 

Environmentally hazardous substance, solid, n.o.s.

Hazard class Packing Group 9

Packing Group Description III UN3077, Environmentally hazardous substance, solid, n.o.s. (sulfentrazone,

metsulfuron-methyl), 9, PGIII, Marine Pollutant

IMDG/IMO

UN/ID no

UN3077

Proper Shipping Name

Environmentally hazardous substance, solid, n.o.s.

Hazard class Packing Group

III

EmS No.

F-A, S-F

Marine Pollutant

Sulfentrazone, Metsulfuron-methyl

Description

UN3077, Environmentally hazardous substance, solid, n.o.s. (sulfentrazone,

metsulfuron-methyl), 9, PGIII, 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

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic health hazard	Yes
Fire hazard	No
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	X	Х

### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Toluene 108-88-3	1000 lb	

FIFRA Information

SDS #: 6529-A Revision date: 2015-04-13

Version 1.01

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

Harmful if swallowed. Causes moderate eye irritation. This pesticide is toxic to marine/estuarine 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
Crystalline silica, quartz - 14808-60-7	Carcinogen

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

Chemical name	New Jersey	V Jersey Massachusetts		
Kaolin 1332-58-7	Х	Х	Х	
Toluene X 108-88-3		Х	Х	
Crystalline silica, quartz 14808-60-7	X	X	Х	

### International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Metsulfuron-methyl 74223-64-6					Х			
Kaolin 1332-58-7	Х	Х	Х	Х	Х	Х	Х	Х
Toluene 108-88-3	Х	Х	Х	Х	Х	Х	Х	Х
Crystalline silica, quartz 14808-60-7	Х	Х	Х	Х	Х	Х	Х	Х

### Mexico - Grade

Moderate risk, Grade 2

Chemical name	Mexico - Pollutant Release and Transfer Register - Reporting Emissions for Fabrication, Process or Use -Threshold Quantities	Pollutant Release and Transfer Register - Reporting Emissions - Threshold Quantities
Toluene	1000 5000 kg/yr	1000 kg/yr

WHMIS Hazard Class

D2B - Toxic materials

16. OTHER INFORMATION	

NFPA	Health Hazards 2	Flammability 1	Instability 0	Special Hazards -
HMIS	Health Hazards 2*	Flammability 1	Physical hazard 0	Personal Protection X

SDS#: 6529-A

Revision date: 2015-04-13

Version 1.01

Revision date: Revision note 2015-04-13 Format Change

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End of Safety Data Sheet