Material Safety Data Sheet

Blindside® Herbicide

SDS #: 6529-A

Revision Date: 2012-04-04

Version 1



This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Workplace Hazardous Materials Information System (WHMIS) requirements.

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Blindside® Herbicide

Active Ingredient(s) Sulfentrazone, Metsulfuron-methyl

Synonyms FMC 97285; 2',4'-dichloro-5'-(4-difluoromethyl-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl)

1,2,4-triazol-1-yl]phenyl] methanesulfonamide

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

Chemical Family Triazolinones; Sulfonylurea

Recommended use Herbicide

Manufacturer Emergency telephone number

FMC Corporation

Agricultural Products Group For leak, fire, spill or accident emergencies, call: 1735 Market Street +1 800 / 424 9300 (CHEMTREC - U.S.A.)

Philadelphia, PA 19103 +1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries),

General Information: Medical Emergencies:

Phone: (215) 299-6000 (800) 331-3148 (U.S.A. & Canada)

E-Mail: msdsinfo@fmc.com +1 (651) 632-6793 (All Other Countries - Collect)

2. Hazards identification

Appearance granules

Physical state solid

Odor No information available.

Flammable properties Finely dispersed particles can form explosive mixtures in air.

Potential health effects

Principle Routes of Exposure Eye contact, Skin contact, Inhalation, Ingestion.

Acute effects

Eyes May cause slight irritation.

Skin Substance may cause slight skin irritation.

Inhalation May cause irritation of respiratory tract. May be harmful if inhaled.

Ingestion May be harmful if swallowed. May cause central nervous system depression. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic effects Prolonged exposure may cause chronic effects. Possible risks of irreversible effects.

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3. Composition/information on ingredients

Hazardous ingredients

Chemical Name	CAS-No	Weight %
Sulfentrazone	122836-35-5	60
Kaolin	1332-58-7	10-20
Metsulfuron-methyl	74223-64-6	6
Toluene	108-88-3	1-5
Naphthalene sulfonic acid-formaldehyde condensate, sodium salt	9084-06-4	1-5

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 treatment advice.

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

respiration, preferably by 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 induce vomiting or give anything by mouth to an unconscious person.

5. Fire-fighting measures

Flammable properties Finely dispersed particles can form explosive mixtures in air.

Sensitivity to Mechanical Impact not applicable Sensitivity to Static Discharge not applicable

Suitable extinguishing media Carbon dioxide (CO₂). Foam. Dry powder. Water spray.

-

Protective equipment and precautions for firefighters

NFPA

Health Hazard 1
Flammability 1
Stability 0
Special Hazards -

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.

Wear self-contained breathing apparatus and protective suit.

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 Use a wet sweeping compound or water to prevent dust formation.

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Methods for cleaning up

Sweep up and shovel into suitable containers for disposal. 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.

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

and Company Identification" above.

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 container.

8. Exposure controls/personal protection

Exposure guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Kaolin	TWA: 2 mg/m ³	TWA: 15 mg/m ³ TWA: 5	TWA: 10 mg/m ³ TWA: 5	Mexico: TWA 10 mg/m ³
1332-58-7		mg/m³	mg/m³	Mexico: STEL 20 mg/m ³
Toluene	TWA: 20 ppm	TWA: 200 ppm	IDLH: 500 ppm	Mexico: S*
108-88-3		Ceiling: 300 ppm	TWA: 100 ppm TWA: 375	Mexico: TWA 50 ppm Mexico:
			mg/m³	TWA 188 mg/m ³
			STEL: 150 ppm STEL: 560	
			mg/m³	

Chemical Name	British Columbia	Quebec	Ontario TWAEV	Alberta
Kaolin 1332-58-7	TWA: 2 mg/m ³	TWA: 5 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³
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

Occupational exposure 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.

Personal Protective Equipment

General Information If the product is used in mixtures, it is recommended that you contact the appropriate protective

equipment suppliers, These recommendations apply to the product as supplied

Respiratory protection For dust, splash, mist or spray exposures wear a filtering mask.

Eye/face protection For dust, splash, mist or spray exposure, wear chemical protective goggles or a face-shield.

Skin and body protection Wear long-sleeved shirt, long pants, socks, shoes, and gloves.

Hand protection Protective gloves

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.

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9. Physical and chemical properties

AppearancegranulesPhysical statesolid

Odor No information available.

pH 7.7

Melting Point/Range No information available.
Freezing point No information available

Boiling Point/Rangenot applicableFlash Pointnot applicableEvaporation ratenot applicableAutoignition Temperaturenot applicable

Flammable properties Finely dispersed particles can form explosive mixtures in air.

Vapor pressureNo information availableVapor densityNo information availableDensity37 - 38.3 lb/cu ftWater solubilityDispersible in waterPercent volatileNo information available

Partition coefficient: not applicable

Viscosity No information available

Oxidizing properties not applicable

10. Stability and reactivity

Stability Stable

Conditions to avoid Excessive heat

Materials to avoid Oxidizing agents

Hazardous decomposition products Carbon oxides, nitrogen oxides (NOx), Sulfur oxides, Hydrogen chloride, Hydrogen fluoride.

Hazardous polymerization Hazardous polymerization does not occur

11. Toxicological information

Acute Toxicity

Signs of toxicity in laboratory animals, with sulfentrazone, included clonic convulsions, ataxia, hypersensitivity to touch, chromorhinorrhea, abdominogenital staining, decreased locomotion, lacrimation, nasal discharge, and squinting eyes.

Eye contact Slightly or non-irritating (rabbit).

Skin contact Slightly or non-irritating (rabbit). (rabbit)

 LD50 Dermal
 > 5000 mg/kg (rat)

 LD50 Oral
 3129 mg/kg (rat)

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

Sensitization Non-sensitizing

Chronic Toxicity - Other Ingredient(s)

Chronic Toxicity Prolonged exposure may cause chronic effects. Possible risks of irreversible effects.

Carcinogenicity Sulfentrazone, Metsulfuron-methyl: Not carcinogenic.

Mutagenicity Sulfentrazone, Metsulfuron-methyl: Not mutagenic.

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Reproductive toxicity Offspring Toxicity (sulfentrazone): LOAEL = 33 mg/kg/day for males; 40 mg/kg/day for females.

Metsulfuron-methyl: No toxicity to reproduction.

Neurological Effects Sulfentrazone: Altered motor activity and FOB effects, which reverse after single exposure, with no

signs of histopathology

Developmental Toxicity Sulfentrazone: NOAEL of 10 mg/kg/day in the developmental toxicity study in rat. NOAEL of 14

mg/kg/day in a 2-generation reproduction study. Metsulfuron-methyl: Not teratogenic in animal

studies.

Target Organ Effects Sulfentrazone: Hematopoietic System.

Chemical Name	ACGIH	IARC	NTP	OSHA	NIOSH - Target
					Organs
Kaolin					respiratory
					system,stomach
Toluene					CNS,eyes,kidneys,liv
					er,respiratory
					system,skin

12. Ecological information

Ecotoxicity

Sulfentrazone (122836-35-5)

Active Ingredient(s)	Duration	Species	Value	Units
Sulfentrazone	120 h LC50	Algae	31	μg/L
	48 h LC50	Aquatic organisms	60.4	mg/L
	96 h LC50	Fish	94	mg/L
	LD50 Oral	Bobwhite quail	>2250	mg/kg
	LD50 Dietary	Mallard duck	>5620	ppm

Metsulfuron-methyl (74223-64-6)

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
	LD50	Bee	>25	μg/bee

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other
				aquatic invertebrates

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Toluene	>433 mg/L EC50 96 h	LC50 15.22-19.05 mg/L	EC50 5.46 - 9.83 mg/L 48 h
	(Pseudokirchneriella	Pimephales promelas 96 h	EC50 11.5 mg/L 48 h
	subcapitata) 12.5 mg/L EC50	LC50 12.6 mg/L Pimephales	
	72 h (Pseudokirchneriella	promelas 96 h LC50 5.89-7.81	
	subcapitata)	mg/L Oncorhynchus mykiss 96	
		h LC50 14.1-17.16 mg/L	
		Oncorhynchus mykiss 96 h	
		LC50 5.8 mg/L Oncorhynchus	
		mykiss 96 h LC50 11.0-15.0	
		mg/L Lepomis macrochirus 96	
		h LC50 54 mg/L Oryzias	
		latipes 96 h LC50 28.2 mg/L	
		Poecilia reticulata 96 h LC50	
		50.87-70.34 mg/L Poecilia	
		reticulata 96 h	

Environmental Fate

Sulfentrazone (122836-35-5)

Active Ingredient(s)	Type of Test	Result
Sulfentrazone	Bioconcentration factor (BCF)	2
	Half-life in soil	2-18 months
	log Pow	1.5
	Mobility in soil	Potential to reach groundwater
	Stability in water	Stable to hydrolysis over a wide range of pH values.

Metsulfuron-methyl (74223-64-6)

rictsuntation methyl (7 1225 01 0)		
Active Ingredient(s)	Type of Test	Result
Metsulfuron-methyl	Bioconcentration factor (BCF)	1
	Half-life in soil	14-180 days
	Mobility in soil	Relatively mobile in soil
	Stability in water	Stable in water.

Chemical Name	log Pow
Toluene	2.65

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.

Contaminated packaging Containers must be disposed of in accordance with local, state and federal regulations. Refer to the

product label for container disposal instructions

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.

Packaging Type Non-Bulk, Bulk

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

by road or rail only.

Proper shipping name Environmentally hazardous substance, solid, n.o.s.

Hazard Class

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UN/ID No UN3077
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 9
Packing group III

Marine pollutant Sulfentrazone, Metsulfuron-methyl

Description UN3077, Environmentally hazardous substance, solid, n.o.s. (sulfentrazone, metsulfuron-methyl), 9,

PGIII, Marine Pollutant

IMDG/IMO

Proper shipping name Environmentally hazardous substance, solid, n.o.s.

Hazard Class

UN/ID No UN3077
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	1-5	1.0

SARA 311/312 Hazard Categories

Acute Health HazardyesChronic Health HazardyesFire HazardnoSudden Release of Pressure HazardnoReactive Hazardno

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Toluene	1000 lb	

TSCA Inventory (United States of America)

Chemical Name	U.S TSCA (Toxic Substances Control Act) - Section 8(d) - 716.120(a) - Health and Safety Reporting - List of Substances
Toluene	10/04/1982

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International Regulations

Mexico - Grade Slight risk, Grade 1

Chemical Name	Carcinogen Status	Mexico
Kaolin		Mexico: TWA 10 mg/m ³
		Mexico: STEL 20 mg/m ³
Toluene		Mexico: S*
		Mexico: TWA 50 ppm Mexico: TWA 188 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class Non-controlled

16. Other information

Revision Date: 2012-04-04 **Reason for revision:** Initial Release.

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End of Material Safety Data Sheet