

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; N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-
1,2,4-triazol-1-yl]phenyl] methanesulfonamide;

; 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:
1 800 / 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)

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 |

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.

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 ₂). Foam. Dry powder. Water spray. |
| Specific Hazards Arising from the Chemical | Finely dispersed particles can form explosive mixtures in air. |
| Explosion data | |
| Sensitivity to Mechanical Impact | Not sensitive. |
| Sensitivity to Static Discharge | 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 |
|---------------------|--------------------------|---|---|---|
| Kaolin 1332-58-7 | TWA: 2 mg/m ³ | TWA: 15 mg/m ³ TWA: 5 mg/m ³ | TWA: 10 mg/m ³ TWA: 5 mg/m ³ | Mexico: TWA 10 mg/m ³ Mexico: STEL 20 mg/m ³ |

| | | | | |
|----------------------|--------------------------|---|---|---|
| Toluene 108-88-3 | TWA: 20 ppm | TWA: 200 ppm Ceiling: 300 ppm | IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³ | Mexico: S* Mexico: TWA 50 ppm Mexico: TWA 188 mg/m ³ |
| 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/m ³ Skin | TWA: 20 ppm | TWA: 50 ppm TWA: 188 mg/m ³ Skin |

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 | granules |
| Physical State | Solid |
| Color | No information available |
| Odor | No information available |
| Odor threshold | No information available |
| pH | 7.66 |
| Melting point/freezing point | Not applicable |
| Boiling Point/Range | No information available |
| Flash point | Not applicable |
| Evaporation Rate | No information available |
| Flammability (solid, gas) | No information available |
| Flammability Limit in Air | |
| Upper flammability limit: | No information available |
| 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 |
| Molecular weight | No information available |
| Bulk density | No information available |

10. STABILITY AND REACTIVITY

| | |
|------------------------------------|--|
| Reactivity | None under normal use conditions. |
| Chemical Stability | Stable under recommended storage conditions. |
| 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 | Moderately irritating (rabbit). |
| Skin corrosion/irritation | Slightly irritating (rabbit). |
| Sensitization | Non-sensitizing |

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 | | |

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 (122836-35-5) | | | | |
|------------------------------------|-----------|-----------|-------|-------|
| 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 (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 |

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.

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.

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 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

ICAO/IATA

UN/ID no UN3077
Proper Shipping Name Environmentally hazardous substance, solid, n.o.s.
Hazard class 9
Packing Group III
Description 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 9
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 | X |

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 | RQ |
|---------------|--------------------------|------------------------------------|----|
|---------------|--------------------------|------------------------------------|----|

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| | | | |
|---------------------|---------|--|---|
| Toluene 108-88-3 | 1000 lb | | RQ 1000 lb final RQ RQ 454 kg final RQ |
|---------------------|---------|--|---|

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

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 Female Reproductive |
| crystalline silica, quartz - 14808-60-7 | Carcinogen |

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|--|------------|---------------|--------------|
| Kaolin 1332-58-7 | X | X | X |
| Toluene 108-88-3 | X | X | X |
| crystalline silica, quartz 14808-60-7 | X | X | X |

International Inventories

| Component | TSCA (United States) | DSL (Canada) | EINECS/ELI NCS (Europe) | ENCS (Japan) | China (IECSC) | KECL (Korea) | PICCS (Philippines) | AICS (Australia) |
|--|-------------------------|-----------------|-------------------------------|-----------------|------------------|-----------------|------------------------|---------------------|
| Metsulfuron-methyl 74223-64-6 (6) | | | | | X | | | |
| Kaolin 1332-58-7 (10-15) | X | X | X | X | X | X | X | X |
| Toluene 108-88-3 (1-5) | X | X | X | X | X | X | X | X |

Mexico - Grade

Moderate risk, Grade 2

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 |

Revision date:
Revision note

2015-04-13
Format Change

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End of Safety Data Sheet