1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BLINDSIDE™ HERBICIDE
PRODUCT CODE: 6529
ACTIVE INGREDIENT(S): Sulfentrazone*; Metsulfuron-methyl**
CHEMICAL FAMILY: Aryl triazolinone*; Sulfonylurea**
MOLECULAR FORMULA: C_{11}H_{10}Cl_{2}F_{2}N_{2}O_{3}S (sulfentrazone); C_{14}H_{15}N_{5}O_{6}S (metsulfuron-methyl)
SYNONYMS:
- FMC 97285; F6285; CAS: N-[2,4-dichloro-5-(4-difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]methanesulfonamide; IUPAC: N-[2,4-dichloro-5-(4-difluoromethyl)-3-methyl-5-oxo-4,5-dihydro-1,2,4-triazol-1-yl]phenyl)methane sulfonamide*;
- Benzoic acid, 2-[[[4-methoxy-6-methyl-1,3,5-triazin-2-yl]amino]carbonyl]amino]sulfonyl]-, methyl ester**

ALTERNATE PRODUCT NAME(S): F9009-1 WDG

Information for Sulfentrazone*; Information for Metsulfuron-methyl**

MANUFACTURER
FMC CORPORATION
Agricultural Products Group
1735 Market Street
Philadelphia, PA 19103
(215) 299-6000 (General Information)
msdsinfo@fmc.com (Email - General Information)

EMERGENCY TELEPHONE NUMBERS
(800) 331-3148 (Medical - U.S.A. & Canada)
(651) 632-6793 (Medical - Collect - All Other Countries)

For leak, fire, spill, or accident emergencies, call:
(800) 424-9300 (CHEMTREC - U.S.A. & Canada)
(703) 527-3887 (CHEMTREC - Collect - All Other Countries)
2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
- Granular solid
- Slightly combustible. May support combustion at elevated temperatures. Finely dispersed particles can form explosive mixtures in air.
- Thermal decomposition and burning may form toxic by-products.
- For large exposures or fire, wear personal protective equipment.
- Highly toxic to algae.
- Slightly toxic to fish and aquatic organisms. Keep out of drains and water courses.

POTENTIAL HEALTH EFFECTS: Effects from overexposure result from either swallowing, inhaling or coming into contact with the eyes or skin. Symptoms of overexposure may include convulsions, tremors, increased sensitivity to touch and sound, labored breathing, decreased locomotion, tearing, nasal discharge and incoordination. No data available for the formulation.

MEDICAL CONDITIONS AGGRAVATED: None presently known.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Wt.%</th>
<th>EC No.</th>
<th>EC Class</th>
</tr>
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<tbody>
<tr>
<td>Sulfentrazone</td>
<td>122836-35-5</td>
<td>60</td>
<td>None</td>
<td>Not classified in Annex I</td>
</tr>
<tr>
<td>Metsulfuron-methyl</td>
<td>74223-64-6</td>
<td>6</td>
<td>None</td>
<td>N; R50/53</td>
</tr>
<tr>
<td>Surfactant Blend</td>
<td>&lt;15</td>
<td>None</td>
<td>Not classified</td>
<td></td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>5 - 10</td>
<td>None</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

EYES: Flush with water for at least 15 minutes. If irritation occurs and persists, obtain medical attention.

SKIN: Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

INGESTION: Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. See a medical doctor immediately.
INHALATION: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, contact a medical doctor.

NOTES TO MEDICAL DOCTOR: This product has low oral, dermal and inhalation toxicity. It is slightly irritating to the eyes and skin.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Foam, CO₂ or dry chemical. Soft stream water fog only if necessary. Contain all runoff.

FIRE / EXPLOSION HAZARDS: Slightly combustible. May support combustion at elevated temperatures. Finely dispersed particles can form explosive mixtures in air.

FIRE FIGHTING PROCEDURES: Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors generated.

6. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: Isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed in Section 8, “Exposure Controls/Personal Protection”. Keep unprotected persons and animals out of the area.

Keep material out of lakes, streams, ponds and sewer drains. Large spills should be covered to prevent dispersal. For dry material, use a wet sweeping compound or water to prevent the formation of dust. If water is used, prevent runoff or dispersion of excess liquid by diking and absorbing with a non-combustible absorbent such as clay, sand or soil. Vacuum, shovel or pump all waste material, including absorbent, into a drum and label contents for disposal.

To clean and neutralize spill area, tools and equipment, wash with a suitable solution of caustic or soda ash, and an appropriate alcohol (i.e., methanol, ethanol or isopropanol). Follow this by washing with a strong soap and water solution. Absorb, as above, any excess liquid and add to the drums of waste already collected. Repeat if necessary. Dispose of drummed waste according to the method outlined in Section 13, “Disposal Considerations”.

7. HANDLING AND STORAGE

HANDLING AND STORAGE: Store in a cool, dry, well-ventilated place. Do not use or store near heat, open flame or hot surfaces. Store in original containers only. Keep out of reach of children and animals. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>Supplier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaolin</td>
<td>2 mg/m$^3$ (TWA) (respirable fraction)</td>
<td>15 mg/m$^3$ (PEL) (total dust) 5 mg/m$^3$ (PEL) (respirable fraction)</td>
<td></td>
</tr>
</tbody>
</table>

ENGINEERING CONTROLS: No open flames. Prevent deposition of dust; use closed system, consider use of dust explosion-proof electrical equipment and lighting. Use local exhaust at all process locations where dust may be emitted. Ventilate all transport vehicles prior to unloading.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: For dust exposure, wear chemical protective goggles or a face shield.

RESPIRATORY: For dust exposures wear, as a minimum, a properly fitted half-face or full-face air-purifying respirator, which is approved for pesticides (U.S. NIOSH/MSHA, EU CEN or comparable certification organization). Respirator use and selection must be based on airborne concentrations.

PROTECTIVE CLOTHING: Depending upon concentrations encountered, wear coveralls or long-sleeved uniform and head covering. For larger exposures as in the case of spills, wear full body cover barrier suit, such as a PVC suit. Leather items - such as shoes, belts and watchbands - that become contaminated should be removed and destroyed. Launder all work clothing before reuse (separately from household laundry).

GLOVES: Wear chemical protective gloves made of materials such as butyl rubber, nitrile or neoprene. Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

WORK HYGIENIC PRACTICES: 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 at the end of the workday.

COMMENTS: Personal protective recommendations for mixing or applying this product are prescribed on the product label. Information stated above provides useful, additional guidance for individuals whose use or handling of this product is not guided by the product label.
9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Not available
APPEARANCE: Granular solid
DENSITY / WEIGHT PER VOLUME: 37 - 38.3 lb/cu. ft
pH: 7.7
SOLUBILITY IN WATER: Disperses

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Excessive heat and fire.
STABILITY: Thermally stable at typical use temperatures. Some components of this product can decompose at elevated temperatures.
POLYMERIZATION: Will not occur
INCOMPATIBLE MATERIALS: Excessive heat and fire. Cloransulam-methyl: Avoid contact with oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, hydrogen chloride, hydrogen fluoride.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Slightly irritating (rabbit)
SKIN EFFECTS: Slightly irritating (rabbit)
DERMAL LD$_{50}$: > 5,000 mg/kg (rabbit)
ORAL LD$_{50}$: 3,129 mg/kg (rat)
INHALATION LC$_{50}$: > 2.03 mg/l (4 h) (rat)
SENSITIZATION: This product was non-sensitizing to the skin in laboratory studies.

ACUTE EFFECTS FROM OVEREXPOSURE: This product has low oral, dermal and inhalation toxicity. It is slightly irritating to the eyes and skin. 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.
CHRONIC EFFECTS FROM OVEREXPOSURE: No data available for the formulation. Sulfentrazone was not carcinogenic in lifetime feeding studies with laboratory animals, nor was it found to be mutagenic in a battery of tests. In a reproduction study, sulfentrazone produced adverse effects on the growth and survival of the offspring, decreased male fertility and oligosperma at 25 mg/kg/day, and 35 mg/kg/day. Sulfentrazone was found to be fetotoxic in oral and dermal developmental toxicity studies; the fetal NOELs were 10 mg/kg/day and 100 mg/kg/day, respectively. At labeled use rates and practices of mixing and applying, expected exposure to farm workers is at least one hundred times lower than the doses that produced effects in laboratory animals.

12. ECOLOGICAL INFORMATION

No data available for the formulation. Data presented below are based on the active ingredients.

ENVIRONMENTAL DATA: Sulfentrazone is stable in soil (half-life = 18 months). In water, sulfentrazone is stable to hydrolysis over the pH range of 5 to 9; however, it will readily undergo photolysis (half-life < 0.5 day). Sulfentrazone has a low affinity for organic matter (Koc = 43), but is mobile only in soils with high sand content. The potential for sulfentrazone to bioaccumulate is very low, having a Log Pow of 1.48, and a bioconcentration factor of 1.1 - 2.0.

ECOTOXICOLOGICAL INFORMATION: Sulfentrazone:
Fish and aquatic arthropods: LC50 values range from 60.4 mg/L to > 130 mg/L (slightly toxic)
Upland game birds: LD50 > 2250 mg/kg (oral, low toxicity)
Algae: 120 Hour EC50 = 31µg/L (Selenastrum)
Algae: 120 Hour EC50 = 33µg/L (Anabaena - Bluegreen Algae)

Metsulfuron-methyl:
Algae: 72 hour EC50 = 0.045 mg/L (Raphidocelis subcapitata)
Fish: 96 hour LC50 = 150 mg/L (Oncorhynchus mykiss)

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Open dumping or burning of this material or its packaging is prohibited. If spilled material cannot be disposed of by use according to label instructions, an acceptable method of disposal is to incinerate in accordance with local, state and national environmental laws, rules, standards and regulations. However, because acceptable methods of disposal may vary by location and regulatory requirements may change, the appropriate agencies should be contacted prior to disposal.

EMPTY CONTAINER: Completely empty package into application equipment. Then dispose of empty package in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.
14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

PACKAGING TYPE: Non-Bulk
ADDITIONAL INFORMATION: This material is not a hazardous material as defined by US Department of Transportation at 49 CFR Parts 100 through 185.

PACKAGING TYPE: Bulk
PROPER SHIPPING NAME: Environmentally hazardous substance, solid, n.o.s.
TECHNICAL NAME(S): Sulfentrazone, Metsulfuron-methyl
PRIMARY HAZARD CLASS / DIVISION: 9
UN/NA NUMBER: UN 3077
PACKING GROUP: III
MARINE POLLUTANT: Sulfentrazone, Metsulfuron-methyl

INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)

PACKAGING TYPE: Non-Bulk
PROPER SHIPPING NAME: Environmentally hazardous substance, solid, n.o.s.
TECHNICAL NAME(S): Sulfentrazone, Metsulfuron-methyl
PRIMARY HAZARD CLASS / DIVISION: 9
UN/NA NUMBER: UN 3077
PACKING GROUP: III
MARINE POLLUTANT: Sulfentrazone, Metsulfuron-methyl

ADR - EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD

PROPER SHIPPING NAME: Environmentally hazardous substance, solid, n.o.s.
PRIMARY HAZARD CLASS / DIVISION: 9
CLASSIFICATION CODE: M7
UN/NA NUMBER: UN3077
PACKING GROUP: III
HAZARD IDENTIFICATION NUMBER: 90
ADDITIONAL INFORMATION: This material is toxic to algae.
Environmentally Hazardous Substance: Sulfentrazone
Environmentally Hazardous Substance: Metsulfuron-methyl

INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO) / INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA)

PROPER SHIPPING NAME: Environmentally hazardous substance, solid, n.o.s.
TECHNICAL NAME(S): Sulfentrazone, Metsulfuron-methyl
PRIMARY HAZARD CLASS / DIVISION: 9
UN/NA NUMBER: UN3077
PACKING GROUP: III
ADDITIONAL INFORMATION: Environmentally Hazardous Substance: Sulfentrazone
Environmentally Hazardous Substance: Metsulfuron-methyl
When shipped by air within the USA, this product is not regulated in non-bulk packages and does not require identification as a Marine Pollutant.

OTHER INFORMATION:
HARMONIZED SYSTEM NUMBERS:
Import to the U.S.A.: 3808.93.1500
Export from the U.S.A.: 3808.93.0000

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A):
Not listed
SECTION 311 HAZARD CATEGORIES (40 CFR 370):
Delayed

SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370):
The Threshold Planning Quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs; however, this product contains the following ingredients with a TPQ of less than 10,000 lbs.:
None

SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):
This product does not, to our knowledge, contain any toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT)
CERCLA DESIGNATION & REPORTABLE QUANTITIES (RQ) (40 CFR 302.4):
Not listed

HAZARD AND RISK PHRASE DESCRIPTIONS:

EC Risk Phrases:  
R11   (Highly flammable)
R38   (Irritating to skin)
R48/20 (Harmful: danger of serious damage to health by prolonged exposure through inhalation)
R63   (Possible risk of harm to the unborn child)
R65   (Harmful: may cause lung damage if swallowed.)
R67   (Vapors may cause drowsiness and dizziness.)

16. OTHER INFORMATION

NFPA

<table>
<thead>
<tr>
<th>Health</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>1</td>
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<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>Special</td>
<td>None</td>
</tr>
</tbody>
</table>

No special requirements

NFPA (National Fire Protection Association)

Degree of Hazard Code:
4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant

REVISION SUMMARY:
This MSDS replaces Revision #1, dated February 16, 2010.
Changes in information are as follows:
Section 1 (Product and Company Identification)
Section 16 (Other Information)

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