



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MSM E-Pro – Turf Herbicide
Active Ingredient: Metsulfuron methyl
Chemical Name: Methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]-carbonyl]amino]sulfonyl]benzoate
Chemical Formula: C₁₄H₁₅N₅O₆S

COMPANY IDENTIFICATION:

Etigra, LLC
2214 Highway 44 West
Inverness, FL 34453
UNITED STATES

2. COMPOSITION/INFORMATION ON INGREDIENTS

Metsulfuron Methyl	CAS No. 74223-64-6	60.0%
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3. HAZARD IDENTIFICATION

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

POTENTIAL HEALTH EFFECTS –

IF IN EYES: May cause irritation with tearing, pain or blurred vision.

IF ON SKIN: Repeated dermal contact may cause skin irritation with itching, burning, redness, swelling and/or rash.

4. FIRST AID

IF ON SKIN OR CLOTHING: Call a poison control center or doctor for treatment advice. Take off contaminated clothing. Rinse skin immediately with water for 15-20 minutes.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

5. FIRE-FIGHTING MEASURES

Flash Point: N/A

Flammable Limits (LFL-UFL): N/A

Fire and Explosion Hazards: None. This product will not burn or burns with difficulty.

Means of Extinction: Use extinguishing agent suitable for surrounding fires.

Fire-Fighting Instructions: Keep unnecessary people away and conduct fire-fighting and rescue operation from upwind of the fire area. Evacuate people downwind who may come in contact with smoke, fumes or contaminated surfaces. If area is exposed to fire and conditions permit, allow fire to burn itself out. Use as little water as possible and use spray or fog and avoid heavy hose streams to prevent runoff.

Fire-fighting Equipment: Self-contained breathing apparatus with full face piece. Wear full fire-fighting turn-out gear (Bunker gear).

Hazardous Combustion Products: May produce carbon monoxide, carbon dioxide, hydrogen chloride and aldehydes.

NFPA RATINGS: Health: 1 / Flammability: 1 / Reactivity: 0

6. ACCIDENTAL RELEASE MEASURES

For emergency response, wear chemical-resistant coveralls, waterproof gloves and boots and face/eye protection. If dusting occurs, wear NIOSH-approved respirator protection.

Dike spill and prevent material from entering sewers, waterways or low areas. Shovel or sweep up and place in a closed container for disposal. Flush area with water. Dispose in accord with local, state and federal regulations.

Manufactured for:
Etigra, LLC
2214 Hwy 44 West
Inverness, FL 34453

Etigra, LLC
Emergency Phone: Chemtrec 800-424-9300
Effective Date: May 9, 2006
EPA Reg. No. 81959-14

REV 1006

The Etigra logo features a stylized green plant with three leaves above the word "ETIGRA" in a bold, green, sans-serif font. A trademark symbol (TM) is located to the right of the word.

ETIGRA™

7. HANDLING AND STORAGE

Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal. Wash thoroughly after handling this product. Store in original container in a secured cool, dry storage area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use only with adequate ventilation.

Protective Clothing: All pesticide handlers must wear a long-sleeved shirt and long pants and shoes plus socks.

General: Wash thoroughly with soap and water after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light brown granules

Odor: Slight

pH: 4.012

Flashpoint (PMA-4): N/A

Specific Gravity: 1.398 g/ml at 25°C

Solubility in Water: Dispersible

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None known.

CHEMICAL STABILITY: Stable.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may produce by-products more toxic than the active ingredient.

INCOMPATIBILITY WITH OTHER MATERIALS: None known.

POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY

Oral LD₅₀ (rat): > 5,000 mg/kg

ACUTE DERMAL TOXICITY

Dermal LD₅₀ (rabbit): > 2,000 mg/kg

ACUTE INHALATION TOXICITY

Inhalation LC₅₀ (rat): >5.3 mg/L

EYE IRRITANT

Rabbit – Slightly Irritating

SKIN IRRITATION

Rabbit – Non-Irritating

SENSITIZATION

Guinea Pig – Not a Contact Sensitizer

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

None known.

CARCINOGENICITY:

ACGIH: Not listed

IARC: Not listed

NTP: Not listed

OSHA: Not listed

MUTAGENIC DATA: No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

ADDITIONAL DATA: Not known to cause reproductive or birth defects.

12. ECOLOGICAL INFORMATION

This product is injurious to plants at extremely low concentrations. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply where runoff water may flow, during periods of intense rainfall or to water-saturated soils as off-target movement and injury may occur. Do not contaminate water when disposing of equipment washwaters.

13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: Not regulated by DOT

DOT HAZARD CLASS OR DIVISION: N/A

DOT UN/NA NUMBER: N/A

DOT PACKING GROUP: N/A

REPORTABLE QUANTITY: N/A

MARINE POLLUTANT: Not Listed

DOT EMERGENCY RESPONSE GUIDE: N/A

15. REGULATORY INFORMATION

FIFRA –

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act. The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide.

SARA Title III – Section 302 Extremely Hazardous Substances
Not Listed

SARA Title III – Section 311/312 Hazard Categories
Immediate

SARA Title III – Section 312 Threshold Planning Quantity
N/A

SARA Title III – Section 313 Reportable Ingredients
None

CERCLA –
None Listed

CALIFORNIA PROP 65 STATUS –
Not Listed

16. OTHER INFORMATION

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

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