



Safety Data Sheet

Report Date 17-Dec-15

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1. Identification

Product Name : VOUCHER HERBICIDE
Synonyms : None
Product Use : Fluroxypyr and MCPA Herbicide
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Danger
Skin Irritation : Causes mild skin irritation
Eye Irritation : Causes serious eye damage
Acute Toxicity Oral : LD50 1,750 mg/kg (female rat)
Acute Toxicity Dermal : LD50 5,050 mg/kg

Hazard Categories : Oral/Dermal/Inhalation Tox-4/5/4; Eye/Skin Irr-1/3; Combustible-4; Aspiration Haz-1; Sensitizer-1A

Hazard Statement : Harmful if swallowed
May be harmful in contact with skin
Causes serious eye damage
Causes mild skin irritation
Harmful if inhaled
May cause an allergic skin reaction
May be fatal if swallowed and enters airways
Combustible liquid

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Fluroxypyr 1-methylheptyl ester	81406-37-3	10-11
MCPA Acid (2-methyl-4-chlorophenoxyacetic acid)	94-74-6	28-30
Proprietary blend of formulation aids	Proprietary	60-62

4. First Aid Measures

Eye : Hold eye 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 treatment advice.

Skin : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.



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Inhalation : Move person to fresh air. If person is not breathing, call 911 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 : Immediately call a physician or poison control center. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid. Do not give anything by mouth to an unconscious person.

Indication of Immediate Medical Attention and Special Treatment Needed : May pose an aspiration pneumonia hazard. Contains xylene range aromatic solvent.

5. Fire Fighting Measures

Extinguishing Media : Use foam, carbon dioxide, dry chemical, water spray or fog extinguishing agents.

Specific Hazards Arising from the Chemical : Combustible liquid.

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing. Fight fire from upwind and keep non-essential personnel out of the area. Dike to prevent runoff of fire fighting water. Use water spray to cool fire-exposed containers.

6. Accidental Release Measures

Personal Precautions : Keep unprotected and unnecessary personnel out of spill area.

Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

Emergency Procedures : Contain spills to prevent runoff to any water sources or supplies.

Methods and Materials for Containment and Cleanup : Absorb small spills with an inert absorbent, such as clay, sand or dirt. Collect and place in suitable containers for proper disposal.

7. Handling and Storage

Precautions for Safe Handling : Do not contaminate water, food, feed or fertilizer by handling, storage or disposal. Keep locked up and out of reach of children. Keep container tightly closed. Do not allow water to be introduced into the contents of the container.

Conditions for Safe Storage : Store above 10 Degrees F. or warm and agitate before use. Do not store near heat or open flame.

8. Exposure Controls / Personal Protection

TLV/PEL : No TLV/PEL established for Fluroxypyr or MCPA.

Appropriate Engineering Controls : General and/or local exhaust should be sufficient.

Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

Odor/Appearance : Clear pale yellow/amber liquid; faint waxy odor.

Flash Point, °F : >73 Deg C (Koehler Closed Cup)

Boiling Point, °F : Not established

Melting Point(Freezing point), °C : Not established



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Vapor Pressure, mm Hg @ 20 °C : Not determined
Vapor Density : Not determined
Solubility in Water : Emulsifies
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.120-1.140
Evaporation Rate(Butyl Acetate = 1) : Not determined
Octanol/Water Partition Coefficient : No information found
pH : 2.0 to 3.0 (1%)
Flammable Limits (approximate volume % in air) : Not established
Auto-ignition Temperature : Not determined
Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : May produce oxides of nitrogen and other toxic fumes under fire conditions.
Hazardous Polymerization : Will not occur
Conditions to Avoid : None currently known
Incompatible Materials : Avoid contact with strong oxidizers.

11. Toxicological Information

Acute Toxicity (Oral LD50) : 1,750 mg/kg (female rats). Harmful if swallowed. May be fatal if swallowed and enters airways.
Acute Toxicity (Dermal LD50) : >5,050 mg/kg. May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : >2.21 mg/L (4 hour exposure to aerosol)(rats). Harmful if inhaled.
Likely Routes of Exposure : Eyes, ingestion, skin, inhalation.
Skin Irritation : Causes mild skin irritation.
Eye Irritation : Causes serious eye damage.
Skin Sensitization : May cause an allergic skin reaction.
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : No information found.
Other Hazards : May be fatal if swallowed and enters airways.

12. Ecological Information

Ecotoxicity : This product is toxic to fish and may be toxic to aquatic invertebrates and aquatic plants.
Persistence and Degradability : No information found
Bioaccumulative Potential : No information found
Mobility in Soil : The use of this product in areas where soil is permeable, particularly where the water table is shallow, may result in groundwater contamination.
Other Adverse Effects : Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.

13. Disposal Considerations



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Waste Disposal Method : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

14. Transport Information

UN Proper Shipping Name : Not regulated by DOT.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : May be a Marine Pollutant according to IATA (air) or IMDG (water) regulations. Not listed as a Marine Pollutant on Appendix B to 49 CFR 172.101.
Transport in Bulk : No information found
Special Precautions for Transportation : No information found
Freight Classification : Pesticides, NOI, Herbicides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 2 Fire: 1 Reactivity: 0
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard Classification (Yes/No) :

Immediate(Acute) Health: Y
Delayed (Chronic) Health: Y
Sudden Release of Pressure: N
Fire: N
Reactive: N

FIFRA Information : This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling 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:

EPA Registration Number : 5905-585

FIFRA Signal Word : Danger

FIFRA Label Statement : Corrosive. Causes irreversible eye damage.

FIFRA Label Statement : Harmful if swallowed. Do not get in eyes or on clothing.

FIFRA Label Statement : Wear appropriate protective eyewear such as goggles, face shield, or safety glasses.

FIFRA Label Statement : Wash thoroughly with soap and water after handling and before eating, drinking,

FIFRA Label Statement : chewing gum, using tobacco or using the toilet.

FIFRA Label Statement : Remove and wash contaminated clothing before reuse.

FIFRA Label Statement : Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

16. Other Information

Data of Preparation/Revision : 17-December-2015