



Safety Data Sheet

Report Date 27-Feb-16

Page 1 of 4

1. Identification

Product Name : FULL DECK
Synonyms : None
Product Use : MCPA+Fluroxypyr+ Clopyralid 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 : Warning
Skin Irritation : Causes mild skin irritation - slightly irritating
Eye Irritation : Causes serious eye irritation - severely irritating, but reversible
Acute Toxicity Oral : LD50 3,129 mg/kg (rats)
Acute Toxicity Dermal : LD50 >5,050 mg/kg (rats)

Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/4; Eye/Skin Irritation-2A/3; Skin Sensitization-1B

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes serious eye irritation
Causes mild skin irritation
Harmful if inhaled
May cause an allergic skin reaction

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
MCPA: 2-Methyl-4-Chlorophenoxyacetic Acid	94-74-6	25.94
Fluroxypyr 1-methylheptyl ester ((4-amino-3,5-dichloro-6-fluoro-2-pyridinyloxy) Clopyralid:	81406-37-3	10.02
3,6-dichloro-2-pyridinecarboxylic acid	1702-17-6	6.00
Nonhazardous formulation aids	Proprietary	58.04

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 the 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.

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 poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.



Safety Data Sheet

Report Date 27-Feb-16

Page 2 of 4

Indication of Immediate Medical Attention and Special Treatment Needed : In the event of an adverse response, treatment should be directed toward control of the symptoms.

5. Fire Fighting Measures

Extinguishing Media : Use foam, water spray, dry chemical or carbon dioxide extinguishing agents.
Specific Hazards Arising from the Chemical : May produce hydrogen chloride, other chlorine compounds, and oxides of carbon and nitrogen.
Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing. Dike area to prevent runoff of fire fighting water.

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 : Dike spilled liquid to prevent contaminating water supplies, lakes, streams, waterways or drains.
Methods and Materials for Containment and Cleanup : Absorb liquid with an inert material, such as clay, sand or earth. Collect absorbent material and place in suitable closed containers for proper disposal.

7. Handling and Storage

Precautions for Safe Handling : Keep locked up and out of reach of children. Do not contaminate water, food or feed by storage, handling or disposal. Keep container tightly closed. Do not allow water to be introduced into the contents of the container.
Conditions for Safe Storage : Store in a secured warehouse or storage building. Containers should be opened in well-ventilated areas. Keep container tightly closed when not in use. Do not stack cardboard cartons more than 2 pallets high. Do not store near open containers of fertilizer, seed or other pesticides.

8. Exposure Controls / Personal Protection

TLV/PEL : No TLV or PEL established for Clopyralid, 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 : Slightly hazy, yellow liquid. No odor specified.
Flash Point, °F : >95 Degrees C.
Boiling Point, °F : No information found
Melting Point(Freezing point), °C : No information found
Vapor Pressure, mm Hg @ 20 °C : No information found
Vapor Density : No information found
Solubility in Water : Miscible
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.149-1.169



Safety Data Sheet

Report Date 27-Feb-16

Page 3 of 4

Evaporation Rate(Butyl Acetate = 1) : No information found
Octanol/Water Partition Coefficient : No information found
pH : 2.0-3.5
Flammable Limits (approximate volume % in air) : No information found
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 hydrogen chloride, other chlorine compounds, and oxides of carbon and nitrogen.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid exposure to excessive heat. Do not store near heat or flame.
Incompatible Materials : Avoid contact with strong oxidizing agents, bases and acids.

11. Toxicological Information

Acute Toxicity (Oral LD50) : 3,129 mg/kg (rat). May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : >5,050 mg/kg (rat). May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : >2.22 mg/L/4 hours (rat), to aerosol but no deaths occurred. Harmful if inhaled.
Likely Routes of Exposure : Inhalation, skin
Skin Irritation : Causes mild skin irritation.
Eye Irritation : Causes serious eye irritation. Severely irritating to eyes but irritation is reversible.
Skin Sensitization : May cause an allergic skin reaction.
Carcinogenic : No information found
Chronic Effects : No information found
Other Hazards : No information found

12. Ecological Information

Ecotoxicity : No information found
Persistence and Degradability : No information found
Bioaccumulative Potential : No information found
Mobility in Soil : No information found
Other Adverse Effects : No information found

13. Disposal Considerations

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, IATA or IMDG.
Transport Hazard Class : None



Safety Data Sheet

Report Date 27-Feb-16

Page 4 of 4

UN Identification Number : None
Packaging Group : None
Environmental Hazards : No information found
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 : 5905-590
FIFRA Signal Word : Warning
FIFRA Label Statement : Keep out of reach of children.
FIFRA Label Statement : Causes substantial but temporary eye injury.
FIFRA Label Statement : Harmful if swallowed. Do not get in eyes or on clothing.
FIFRA Label Statement : Wear protective eyewear (goggles, face shield, or safety glasses).
FIFRA Label Statement : Wash thoroughly with soap and water after handling and before eating,
FIFRA Label Statement : drinking, chewing gum, using tobacco or using the toilet.
FIFRA Label Statement : Remove and wash contaminated clothing before reuse.

16. Other Information

Data of Preparation/Revision : 27-February-2016