

Material Safety Data Sheet

Effective Date: 16-NOV-2005  
Product: BATTLESHIP III HERBICIDE

I. IDENTIFICATION

Chemical Name: Herbicide mixture of MCPA, Fluroxypyr,  
Triclopyr  
Chemical Family: Broadleaf Herbicide  
Formula: Not applicable, formulated mixture.  
Synonyms: None  
CAS Number: Not applicable, formulated mixture.  
EPA Number: 228-453-5905

II. PHYSICAL DATA

Boiling Point: Not determined  
Freezing Point: Not determined  
Spec Gravity: 1.117 gms/cc  
Vapor Pressure: Not applicable  
Vapor Density: Not determined  
Solubility: Soluble  
Volatiles: Not determined  
Evaporation: Not determined  
Melting Point: Not applicable  
Appearance: Amber liquid with a mild, ester-like odor.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
MCPA Amine (Dimethylamine Salt of 2-Methyl-4-Chlorophenoxyacetic Acid)	2039-46-5	37.84	N/E	Severe eye irritant; skin irritant.
Triclopyr (Triethylamine Salt of 3,5,6-Trichloro-2-Pyridinyloxyacetic Acid)	57213-69-1	4.07	N/E	Skin & eye irritant.
1-Methylhepty Ester of Fluroxypyr	81406-37-3	4.45	N/E	Severe eye irritant; skin irritant.
Proprietary blend of inert ingredients, including nonionic surfactants.		53.64	N/E	Skin irritant.

IV. FIRE AND EXPLOSION HAZARD

Flash Point: Not determined  
Autoignition Temp: Not determined  
Flammable Limit: Not determined

Material Safety Data Sheet

Effective Date: 16-NOV-2005

Product: BATTLESHIP III HERBICIDE

-----  
Extinguishing Media: Use foam or water spray for large fires. Use carbon dioxide, dry chemical or foam for smaller fires.

Special Fire Fight Proc: Wear self-contained breathing apparatus and full protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

Fire and Expl Hazard: If water is used to fight fire, contain runoff, using dikes to prevent contamination of water supplies. Dispose of fire control water later.

-----  
V. HEALTH HAZARD

-----  
Carcinogen Information: Not listed.

ACUTE EFFECTS OF OVER EXPOSURE

-----  
Swallowing: Harmful if swallowed. May cause headache, dizziness, nausea, vomiting, gastrointestinal irritation, weakness and central nervous system depression.

Skin Absorption: Overexposure by skin absorption may cause headache, dizziness, nausea, vomiting and gastrointestinal upset.

Inhalation: Single exposure to vapors or mists is not likely to be hazardous.

Skin contact: Moderately irritating with skin contact. May cause irritation and redness.

Eye Contact: Causes irreversible eye damage. Vapors and mist can cause irritation with eye contact.

Chronic Effects: Exposure may aggravate pre-existing chronic respiratory problems, such as asthma or emphysema. Pre-existing skin conditions may also be aggravated by exposure.

Other Hazard: None currently known.

EMERGENCY AND FIRST AID PROCEDURES

-----  
Swallowing: Call a doctor or poison control center immediately for treatment advice. Sip a glass of water, if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Skin: Remove contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. Call a

Material Safety Data Sheet

Effective Date: 16-NOV-2005

Product: BATTLESHIP III HERBICIDE

poison control center or doctor for treatment advice.

Inhalation: Move to fresh air. If breathing becomes difficult or irritation occurs, seek medical treatment.

Eyes: Hold eye open and immediately flush 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.

Notes to Physician: The decision to induce vomiting or not should be made by a physician. Probable mucosal damage may contraindicate the use of gastric lavage. If lavage is performed, suggest endotracheal and/or esophageal control. There is no specific antidote for this formulation. Treatment should be directed toward control of the symptoms and the clinical condition of the patient.

VI. REACTIVITY

Stability: Stable

Conditions to Avoid: Excessive heat. Do not store in direct sunlight or near heat or flame.

Polymerization: Will Not Occur

Conditions to Avoid: None currently known.

Incompatibility material: Avoid strong oxidizing agents, such as bases and acids.

Hazardous Combustion: May produce gases such as hydrogen chloride, other chlorine compounds, oxides of nitrogen, carbon and phosphorous.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: Absorb small spills with an inert absorbent, such as clay, sand or vermiculite. Prevent material from entering any waterways or public sewers. Large spills to soil or other surfaces may require removal.

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

Material Safety Data Sheet

Effective Date: 16-NOV-2005  
Product: BATTLESHIP III HERBICIDE

-----  
VIII. SPECIAL PROTECTION INFORMATION  
-----

Respiration: None normally required.  
Ventilation: Use adequate general or local exhaust ventilation to minimize airborne concentrations.  
Gloves: Impervious.  
Eyes: Chemical goggles or face shield.  
Other: Eyewash station, emergency shower, long-sleeved shirt and long pants, socks and shoes.

-----  
IX. SPECIAL PRECAUTIONS  
-----

Special precaution: Keep out of reach of children. Do not store with food, feed or other material to be used or consumed by humans or animals. Do not contaminate water supplies, lakes, streams, ponds or sewers with this material. Store in original containers, with the lids tightly closed.  
Other precaution: Protect from freezing by storing at temperatures above 25 Degrees F. If allowed to freeze, remix before using. Freezing will not alter product. Do not stack more than 2 pallets high.

-----  
X. SHIPPING INFORMATION  
-----

Shipping name: Not regulated by DOT.  
Hazard Class: None  
Identification No: None  
Labels Required: None required  
Placarding: None  
Freight Class: Compound, Weed Killing, Liquid (Herbicide), N.O.I. (NMFC Item 50320, Class 60)

Chemical Name	Equivalent R.Q.
-----	-----
Not applicable	Not applicable

-----  
XI. GENERAL PRODUCT INFORMATION  
-----

National Fire Protection Association Rating:  
(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 3                      Fire: 1                      Reactivity: 0

Helena Chemical Company  
PH: 901-761-0050  
CHEMTREC: 800-424-9300

16-NOV-2005 12:24:49  
Page 5 Of 5

Material Safety Data Sheet

Effective Date: 16-NOV-2005  
Product: BATTLESHIP III HERBICIDE

---

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

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

---

Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017  
Helena Chemical Company believes that the data contained herein is factual.  
This data is not to be taken as a warranty or representation of legal  
responsibility. It is offered solely for your consideration, investigation  
and verification.