

MATERIAL SAFETY DATA SHEET
(Prepared According to 29 CFR 1910.1200)

Prepared by: R.K.
Effective Date 5/97

Not Applicable

SECTION 1 - PRODUCT IDENTIFICATION

Product Name: **Non-Selective Herbicide #2** Chemical Family:
 Generic Name: **Liquid Herbicide** Formula:
 Suppliers Name: **Ultra-Chem Inc** Information Phone Number: **800-451-0726**
 Suppliers Address: **8043 Flint Lenexa, KS 66214** Emergency Phone Number: **800-451-0726**

HMIS Hazardous Materials
Identification System

Health	1
Flammability	3
Reactivity	1
Maximum Personal Protection	H

Proper Shipping Name: **Compounds, Tree or Weed Killing, Liquid, 3, NA1993, PG II (Contains; Kerosene, MEK)**

SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS NO.	WT.%	PEL	TWA-TLV	STEL-TLV	CARCINOGEN
Petroleum Distillates	8012-95-1	< 90	400 ppm	No Info	No Info	No
Methyl Ethyl Ketone	7893-3	< 10	200 ppm	No Info	300 / 200 ppm	No
Isooctyl (2-ethylhexyl)	1928-43-4	< 5	10mg/m ³	No Info	10mg/ml	10mg/kg as 2,4,D acid
Ester of 2,4-Dichlorophenoxy - acetic acid						
2,4(1H,3H)-Pyrimidinedione-5 Bromo-	314-40-9	< 5	1 ppm	10mg/m ³	No Info	No
6-Methyl,3-(1-Methylpropyl)						

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of CFR 372:

CAS#	Chemical Name	Percent by Weight
1928-43-4	2,4,D Ester	1.0
78-93-3	Methyl Ethyl Ketone	8.1

SECTION 3 - PHYSICAL DATA

Boiling Range (°F): 175-450°
 Vapor Pressure: No Info
 % Volatile: > 97
 Solubility in Water: Insoluble
 Physical Description: Golden brown to dark brown liquid, petroleum solvent odor.

Specific Gravity: 0.795 to 0.820
 Vapor Density: No Info
 pH: N/A
 Evaporation Rate: (Ether = 1) < 1

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): (Closed cup) 142°
 Upper Explosive Limit: 5.0 %
 Lower Explosive Limit: 0.7 %
 Extinguishing Media: Foam, CO₂, or Dry Chemical.
 Special Fire Fighting Procedures: Full protective gear and SCBA

Unusual Fire and Explosion Hazards: Avoid spreading fire with water.
 Containers may explode in fire.

SECTION 5 - REACTIVITY DATA

Stability: Stable
 Incompatibility (Materials to Avoid): Oxidizers, open flame, extreme heat.
 Hazardous Decomposition Products: CO, CO₂.

Hazardous Polymerization: None known.

SECTION 6 - STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storage: Keep out of reach of children.
 Keep container tightly closed when not in use.
 For Trained Industrial and Institutional Personnel only.
 Ground large containers when transferring this product.

SECTION 7 - HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:
 Primary Route of Entry:
 Skin: Primary irritation. Prolonged exposure may cause defatting and dermatitis.
 Eyes: Irritation, redness, tearing and/or blurred vision.
 Inhalation: Prolonged exposure to vapors or mist can cause headache, nausea, stupor and CNS depression.
 Ingestion: Slightly toxic by ingestion, causing irritation of stomach and intestines.

First Aid Procedures:

Skin: Flush with water 15 minutes. Wash contaminated clothing before reuse.
 Eyes: Immediately flush eyes with water for 15 minutes while holding eyelids apart to ensure flushing of entire surface. Call a physician.
 Inhalation: Remove to fresh air. If breathing has stopped, give artificial respiration. For difficult breathing, give oxygen and call a physician.
 Ingestion: Get medical attention immediately. Do not induce vomiting or give anything by mouth to an unconscious person.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Positive pressure respirator.
 Protective Gloves: Rubber gloves.
 Other Protective Equipment: Apron, impervious boots.

Ventilation: Use local exhaust to eliminate all mists and vapors.
 Eye Protection: Safety goggles.

SECTION 9 - SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:
 Eliminate ignition sources.
 Wear appropriate protective and respiratory equipment.
 Prevent spills from entering sewers or any unauthorized water systems.

Waste Disposal Method: Treat as "D001" hazardous waste
 Dispose in accordance with appropriate Federal, State and Local regulations.