

MATERIAL SAFETY DATA SHEET

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REVISION DATE: June 24, 2011
DATE OF ISSUE: June 24, 2011

I - Product Identification

Barren

PRODUCT CODE: 0320

CHEMICAL FORMULATION: Solvent based non-selective residual herbicide.

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 0
HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - Hazardous Ingredients

Values reported as TWA unless noted.

SUBSTANCE	APPROX %	OSHA PEL	ACCIH TLV	EPA 40 CFR:			CAS #
				302	355	372	
Isoctyl ester of 2, 4-Dichlorophenxyacetic acid	1.09	10mg/m3	N/E	Y	N	Y	1928-43-4
Bromacil	0.98	N/E	10mg/m3	N	N	Y	314-40-9
Aliphatic Hydrocarbons	80.00-90.00	N/E	N/E	N	N	N	68476-31-3
2-Butoxyethanol	10.00-20.0	25ppm (skin)	25ppm (skin)	N	N	Y	111-76-2

Key:

PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling level STEL: Short Term Exposure Limit
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).
355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).
372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - Physical Data

BOILING POINT (°F): N/D

VAPOR PRESSURE (mm Hg): N/D

VAPOR DENSITY (AIR = 1): N/D

SOLUBILITY IN WATER: Insoluble

APPEARANCE AND ODOR: Reddish brown liquid; fuel oil odor.

SPECIFIC GRAVITY (WATER = 1): 0.875

VOC CONTENT (% by weight): N/D

EVAPORATION RATE (WATER = 1): > 1.0

pH: N/A

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): 145

FLAMMABLE LIMITS IN AIR (VOLUME %)

EXTINGUISHING MEDIA: Foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus. Minimize amount of water used to fight fire as run-off may cause pollution.

UNUSUAL FIRE AND EXPLOSION HAZARD: Solvent vapors may cause flashback.

(TEST METHOD): Closed cup

UPPER: N/D

LOWER: N/D

V - Reactivity Data

STABILITY: Stable

INCOMPATIBILITY: Strong oxidizers.

CONDITIONS TO AVOID: Excess heat and open flame.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur.

VI - Health Hazard Data

ROUTES OF ENTRY INHALATION: X EYE CONTACT: X SKIN CONTACT: X INGESTION: X

INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN

CARCINOGENS: May contain trace amounts of benzene (CAS 71-43-2) and naphthalene (CAS 91-20-3).

EFFECTS OF OVEREXPOSURE

IF IN EYES: Severe irritation, redness, tearing and blurred vision.

IF ON SKIN: Redness, dryness and irritation with prolonged or repeated exposure.

IF SWALLOWED: Gastrointestinal irritation, nausea, cramps, vomiting.

IF INHALED: Irritation to upper respiratory tract, weakness, headache, nausea, unconsciousness.

EMERGENCY AND FIRST AID PROCEDURES

IF IN EYES: Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.

IF ON SKIN: Remove and launder all affected clothing. Wash with soap and water. If irritation persists, obtain medical attention.

IF SWALLOWED: Contact physician or poison control center immediately. Do not induce vomiting.

IF INHALED: Remove person to fresh air. If breathing has stopped, give artificial respiration. Obtain medical attention.

VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spill. Ventilate area and remove all sources of ignition.

Soak up spilled material with inert absorbent material and place in a properly marked closed container for proper disposal.

WASTE DISPOSAL METHOD: Consult local environmental authorities.

VIII - Special Protection Information

RESPIRATORY PROTECTION: Use with adequate ventilation. If recommended Exposure Limits are exceeded wear a NIOSH approved respirator, following manufacturer's recommendations.

VENTILATION LOCAL: Recommended **MECHANICAL:** Not required

PROTECTIVE GLOVES: Chemical resistant.

EYE PROTECTION: Safety goggles or face shield.

OTHER PROTECTIVE EQUIPMENT: Eyewash station, protective clothing.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, dry place away from heat and open flame. Keep container tightly closed when not in use. Do not contaminate water, foodstuffs or feed by storage or disposal.

OTHER PRECAUTIONS: Keep out of reach of children.

**IX - Transportation Information
(ground transportation only)**

DOT PROPER SHIPPING NAME: None

DOT CLASS: None

DOT ID NUMBER: None

DOT PACKING GROUP: None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

REVISION DATE: June 24,2011 Prepared by: PMR DATE OF ISSUE: June 24,2011

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