



PO BOX 16458 • FRESNO CA 93755

# MATERIAL SAFETY DATA SHEET

PRODUCT/TRADE NAME:

**Vendetta Broadleaf Herbicide**

## I. NAME

PRODUCT/TRADE NAME: VENDETTA BROADLEAF HERBICIDE  
EPA REGISTRATION #: 71368-28-2935  
CHEMICAL NAME/Common Name:  
Octanoic acid ester of bromoxynil/Bromoxynil  
Isooctyl Ester or 2 Methyl 4 Chlorophenoxyacetic Acid/MCPA Ester  
Aromatic Solvent/Naphthalene

## II. HAZARDOUS INGREDIENTS

	CAS#	OSHA PEL	ACGIH TLV
Bromoxynil	1689-99-2	NE	NE
Isooctyl Ester of MCPA	29450-45-4	NE	NE
Naphthalene	91-20-3	10 ppm	10 ppm

## III. PHYSICAL DATA

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 1.148  
MELTING POINT: NA  
VAPOR DENSITY (AIR = 1): NE  
% VOLATILES BY VOL.: NE  
ODOR: Phenolic  
APPEARANCE: Amber Liquid  
FLASH POINT/METHOD: >200 Deg. F  
VAPOR PRESSURE (mmHg): NE  
SOLUBILITY IN H<sub>2</sub>O: Soluble

## IV. FIRE & EXPLOSION HAZARD

EXTINGUISHING MEDIA:  Water Fog  Foam  Alcohol Foam  
 CO<sub>2</sub>  Dry Chemical  Other  
FIRE FIGHTING PRECAUTIONS & HAZARDS:  
Fight fire upwind. Wear positive pressure self-contained breathing apparatus and full protective equipment. Do not breathe smoke or spray mist. Avoid fallout and runoff. Dike to prevent entering drains, sewers, or water courses. Evacuate people downwind from fire.

## V. CARCINOGEN STATUS

OSHA  NTP  IARC  No Listing Type 3

## VI. REACTIVITY

Stable  HAZARDOUS POLYMERIZATION  
 Unstable  May Occur  Will Not Occur  
AVOID: Oxidizers, Mineral acids and Bases  
HAZARDOUS DECOMPOSITION PRODUCTS: CO<sub>x</sub>, NO<sub>x</sub>, HCL

## VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL: Wear appropriate respiratory protective equipment. Absorb with inert material. Vacuum or sweep material up and place in an approved disposal container.  
DECONTAMINATION: Treat contaminated area with detergent and water. Absorb with inert material and place in disposal container. Repeat as necessary until area is clean.  
ENVIRONMENTAL HAZARDS: Dike to prevent entering drains, sewers or water courses.  
DISPOSAL: Place in DOT-approved container and dispose of in an EPA Class I disposal site.

## VIII. HEALTH PRECAUTION DATA

INGESTION: Acute oral LD<sub>50</sub> (rats) 400 mg/kg (Bayer\*). Do not ingest. Wash before eating, drinking or smoking. Do not store near food or feed.  
INHALATION: No PEL/TLV established for this product. Avoid inhalation of vapors or spray mist. Use appropriate respiratory protection for exposures encountered.  
SKIN ABSORPTION: Dermal LD<sub>50</sub> (rats) 5050 mg/kg (Bayer\*). Avoid skin contact. Wear appropriate personal protective equipment to reduce skin exposure.  
EYE EXPOSURE: Keep out of eyes. Can cause corneal injury. If exposed, flush eyes for a minimum of 15 minutes with water.  
EFFECTS OF OVEREXPOSURE: May irritate respiratory and gastrointestinal tract. Symptoms of overexposure are abdominal pain, diarrhea, vomiting, muscle

twitching, stiffness, sweating and convulsions. Can be fatal. Chronic exposure may result in liver, kidney, blood or testicular injury. Preexisting conditions involving the above symptoms may be aggravated by the exposure to this product.

FIRST AID: In all cases, get prompt medical attention. If ingested, give large amounts of water. Do not induce vomiting. For eye exposure, irrigate for a minimum of 15 minutes with water. For skin exposure, remove contaminated clothing and wash with soap and water. If inhaled, remove victim to fresh air, and administer CPR if necessary.

## IX. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use NIOSH/MSHA - approved respirator for pesticides for the exposures encountered. Positive pressure self-contained breathing apparatus should be used for confined space entry and high exposure operations.  
PERSONAL PROTECTIVE EQUIPMENT: Neoprene or rubber boots, neoprene or nitrile gloves, chemical goggles, apron, hat and long-sleeved coveralls. For manufacture, formulation or application operations, recommend a shower at the end of the work shift.

VENTILATION: Local exhaust ventilation is recommended for manufacture or formulation. Store in a well-ventilated area. Allow closed trucks adequate time to ventilate prior to entering.

## X. SPECIAL PRECAUTIONS

Keep out of the reach of children. Read and follow all label instructions.

## XI. REGULATORY DATA

SARA HAZARD CLASS:  Acute  Chronic  Flammable  
 Pressure  Reactive  None

SARA 313:  Yes  No Chemical: Bromoxynil

SARA 302:  Yes  No Chemical:

TPQ:

CERCLA:  Yes  No Chemical: Naphthalene

RQ:

RCRA:  Yes  No

NFPA HAZARD RATING:

Health: [2]

Fire: [1]

Reactivity: [0]

Special: [ ]

HMIS CODES:

Health: [2]

Fire: [1]

Reactivity: [0]

NFPA HAZARD RATING SCALE:

0 = Minimal 3 = Serious

1 = Slight 4 = Severe

2 = Moderate

HMIS HAZARD RATING SCALE:

0 = Minimal 3 = Serious

1 = Slight 4 = Severe

2 = Moderate

DATE PREPARED: February 6, 2008

REVISED DATE:

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\*Technical Material NE - Not Established NA - Not Applicable

**24 Hour Emergency Phone Number**  
**CHEMTREC: (800) 424-9300**

