

Material Safety Data Sheet

Effective Date: 19-DEC-2013
Product: HM-0452

I. IDENTIFICATION

Chemical Name: Dicamba + 2,4-D
Chemical Family: Phenoxy Herbicides
Formula: Not applicable, formulated mixture.
Synonyms: None
CAS Number: Not applicable, formulated mixture.
EPA Number: 42750-144-5905

II. PHYSICAL DATA

Boiling Point: Not determined
Freezing Point: Not determined
Spec Gravity: 1.137 gms/cc
Vapor Pressure: Not determined
Vapor Density: Not determined
Solubility: Soluble
Volatiles: Not determined
Evaporation: Not determined
Melting Point: Not applicable
Appearance: Amber liquid with an amine odor.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Dicamba	1918-00-9	12.09	N/E	Skin, eye & respiratory irritant.
2,4-D Acid	94-75-7	24.40	10 mg/m3	Skin, eye & respiratory irritant.
Proprietary blend of water and formulation aids.		63.51	N/E	Nonhazardous

IV. FIRE AND EXPLOSION HAZARD

Flash Point: >200 Degrees F.
Autoignition Temp: Not determined
Flammable Limit: Not applicable
Extinguishing Media: Use foam, water spray, dry chemical or carbon dioxide extinguishing agents.
Special Fire Fight Proc: Wear self-contained breathing apparatus and full protective clothing. Dike area to prevent runoff of firefighting water.

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Fire and Expl Hazard: If water is used to fight fire, contain runoff to prevent contamination of water sources.

V. HEALTH HAZARD

Carcinogen Information: See Note in Section IX.

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 symptoms similar to those for ingestion.
Inhalation: Expected to have low inhalation toxicity with single, short-term exposure.
Skin contact: Moderately irritating with skin contact.
Eye Contact: Causes substantial but temporary eye damage. Eye exposure to spray mists and vapors may cause irritation.
Chronic Effects: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disorders.
Other Hazard: None currently known.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: Call a poison control center or doctor immediately for treatment advice. Sip a glass of water if able to swallow. Do not induce vomiting unless instructed to do so by a doctor or poison control center.
Skin: Remove contaminated clothing and wash affected area with plenty of soap and water. Call a poison control center or doctor for further treatment advice.
Inhalation: Move to fresh air. If not breathing, call 911 then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
Eyes: 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

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Notes to Physician: control center or doctor for treatment advice.
In the event of adverse response, treatment should be directed toward control of the symptoms and the clinical condition of the patient.

VI. REACTIVITY

Stability: Stable
Conditions to Avoid: Avoid excessive heat. Do not store near heat or flame.
Polymerization: Will Not Occur
Conditions to Avoid: None currently known.
Incompatibility material: Avoid strong oxidizing agents, bases and acids.
Hazardous Combustion: May produce hydrogen chloride, nitrogen oxides and carbon oxides under fire conditions.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: Prevent material from entering any waterways or drains. Collect free liquids and place in container for disposal. Impacted soils may require removal. Any recovered materials must be placed in an appropriate container for disposal.
Waste Disposal Method: This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

VIII. SPECIAL PROTECTION INFORMATION

Respiration: None needed under normal use conditions.
Ventilation: Use local exhaust ventilation.
Gloves: Chemical-resistant gloves.
Eyes: Chemical goggles or splash shield.
Other: Emergency shower, eyewash station, 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

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contaminate water supplies, lakes, streams, ponds or drains with this material.
Other precaution: Carcinogen Note: IARC lists chlorophenoxy herbicides in its Group 2B (limited evidence for carcinogenicity in humans). The USEPA has given the chlorophenoxy herbicide 2,4-D, a Class D classification (not classifiable as to human carcinogenicity). More current 2,4-D lifetime feeding studies in rats and mice did not show carcinogenic effects and a recent World Health Organization (WHO) review of 2,4-D toxicology has concluded 2,4-D is not a carcinogen.

X. SHIPPING INFORMATION

Shipping name: Not regulated by DOT in containers less than 43 gallons; see Transportation Note below.
Hazard Class: None
Identification No: None
Labels Required: None required
Placarding: None
Freight Class: Pesticides, NOI, Herbicides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)

Chemical Name	Equivalent R.Q.
2,4-D Acid (CAS No. 94-75-7)	100 lbs./43.29 gallons
Dicamba Acid (1918-00-9)	1,000 lbs./874.13 gallons

TRANSPORTATION NOTE:
If shipping in package > 43 gallons, ship as:
RQ, UN3082, Environmentally hazardous substance, liquid, n.o.s. (2,4-D Acid), 9, PG III "ERG # 171"
If shipping in package > 874 gallons, ship as:
RQ, UN3082, Environmentally hazardous substance, liquid, n.o.s. (2,4-D Acid, Dicamba), 9, PG III "ERG # 171"

XI. GENERAL PRODUCT INFORMATION

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

Health: 2 Fire: 1 Reactivity: 0

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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	

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