

Material Safety Data Sheet

Effective Date: 04-MAR-2004
Product: HARDBALL

I. IDENTIFICATION

Chemical Name: 2,4-D Acid
Chemical Family: Chlorophenoxy Herbicide
Formula: Not applicable, formulated mixture.
Synonyms: None
CAS Number: Not applicable, formulated mixture.
EPA Number: 5905-549

II. PHYSICAL DATA

Boiling Point: >212 Degrees F.
Freezing Point: <32 Degrees F.
Spec Gravity: 1.063 gms/cc
Vapor Pressure: Not determined
Vapor Density: Not determined
Solubility: Emulsifiable
Volatiles: 50% (est.)
Evaporation: Not determined
Melting Point: Not determined
Appearance: Amber liquid with surfactant odor.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Proprietary blend of 2,4-Dichlorophenoxyacetic Acid, surfactants and solvents.		100.00	10 mg/m3	Mild skin and severe eye irritant.

IV. FIRE AND EXPLOSION HAZARD

Flash Point: >200 Degrees F.
Autoignition Temp: Not determined
Flammable Limit: Not determined
Extinguishing Media: Foam, water spray, dry chemical or carbon dioxide.
Special Fire Fight Proc: Wear self-contained breathing apparatus and full protective clothing. Contain and dispose of fire control water later.
Fire and Expl Hazard: Under fire conditions, toxic and corrosive fumes are emitted.

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V. HEALTH HAZARD

Carcinogen Information: Not listed

ACUTE EFFECTS OF OVER EXPOSURE

- Swallowing: Harmful if ingested. May cause nausea, vomiting, abdominal pain or decreased blood pressure. Aspiration of the swallowed or vomited product can cause pulmonary complications.
- Skin Absorption: Slightly irritating. Harmful if absorbed through skin. May cause decreased blood pressure, muscle weakness or muscle spasms. Acute Dermal LD50 >5,000 mg/kg.
- Inhalation: Harmful if inhaled. May cause muscle weakness, muscle spasms or decreased blood pressure. Acute Inhalation LC50 is between 0.54 and 2.04 mg/L.
- Skin contact: May cause skin irritation with repeated or prolonged contact.
- Eye Contact: Causes corneal opacity and irreversible eye damage. Contact with vapors or mists can cause eye irritation.
- Chronic Effects: Nausea, vomiting, abdominal pain, decreased blood pressure, muscle weakness and muscle spasms.
- Other Hazard: Prolonged contact can cause liver damage, kidney damage and chronic muscle damage. Product is a skin sensitizer.

EMERGENCY AND FIRST AID PROCEDURES

- Swallowing: Give 2-3 glasses of water to drink. Do not induce vomiting. Seek medical attention immediately. To prevent aspiration of swallowed product, lay victim on side with head lower than waist.
- Skin: Immediately wash skin with soap and water. Seek medical attention if irritation develops or persists.
- Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen. If victim is not breathing, administer CPR. Seek immediate medical attention.
- Eyes: Flush eyes with water for at least 15 minutes, holding eyelids open. Seek immediate medical attention, preferably an ophthalmologist.

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Notes to Physician: There is no specific antidote for this product. All treatment should be based on observed signs and symptoms of distress in the patient. This product contains a phenoxy herbicide. Myotoxic effects may include muscle fibrillations, myotonia and muscular weakness. Ingestion of massive doses may result in persistent fall of blood pressure. Myoglobin and hemoglobin may be found in urine. Elevations of lactate dehydrogenase (LDH), GOT, SGPT and aldolase indicate the extent of muscle damage. If large amounts have been ingested, the stomach should be evacuated by gastric intubation with the aid of a cuffed endotracheal tube to prevent exposure of the esophagus.

VI. REACTIVITY

Stability: Stable
Conditions to Avoid: Extreme heat, open flames, sparks or static electricity.
Polymerization: Will Not Occur
Conditions to Avoid: None currently known.
Incompatibility material: Strong oxidizing agents.
Hazardous Combustion: Hydrogen chloride and oxides of carbon under fire conditions.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: Contain spill using absorbent or impervious materials such as earth, sand or clay. Collect and place in plastic recovery drums for proper 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: When respirators are required, use NIOSH-approved equipment based on actual or potential airborne concentrations.
Ventilation: Local exhaust (mechanical) normally sufficient.
Gloves: Impervious

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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	

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