

MATERIAL SAFETY DATA SHEET



For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Day or Night: 1-800-424-9300
For Medical Emergencies Only, Call: 1-877-325-1840

Hi-Yield® 2, 4-D Selective Weed Killer

Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, Texas 75418

Effective Date: October 1, 2009

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Hi-Yield® 2, 4-D Selective Weed Killer
EPA No.: 228-238-7401

COMPANY IDENTIFICATION:

Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, TX. 75418

2. HAZARDOUS IDENTIFICATIONS:

| HAZARDOUS COMPONENT | CAS NO. | % (TYPICAL) | TLV (UNITS) | PEL (UNITS) |
|--|---------|-------------|----------------------|----------------------|
| Dimethylamine Salt of 2,4-Dichlorophenoxyacetic acid [1] | 94-75-7 | 9.5 | 10 mg/m ³ | 10 mg/m ³ |

[1] NOTE: This is a toxic chemical and is subject to the reporting requirements of section 313 Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

PEL: Permissible Exposure Limit established by the Occupational Safety and Health Administration.

TLV: Threshold Limit Value recommended by the American Conference of Governmental Industrial Hygienists.

3. PHYSICAL DATA:

Boiling Point: 212°F / 100°C
Specific Gravity (H₂O=1): 1.024
Vapor Pressure (mm Hg): 17mm @ 68°F / 20°C
Percent Volatile by Volume (%): >90
Vapor Density (Air=1): >1
Evaporation Rate (butyl acetate): >1
Solubility in Water: Complete
Reactivity in Water: Will not evolve flammable or toxic gases.
Appearance and Odor: Dark brown liquid, aromatic odor.

4. FIRE AND EXPLOSION DATA:

Flash Point: Will not ignite.
Flammability Limits: NA
Extinguishing Media: Water, foam, dry chemical, CO₂.
Auto Ignition Temperature: Not determined.
Unusual Fire and Explosion Hazards: This product will boil and may burn due to prolonged heating at high temperatures.
Special Fire Fighting Procedures: Fight fire from maximum distance. Wear positive pressure breathing apparatus and full protective clothing. Isolate hazard area and deny entry. Avoid excessive use of water to reduce environmental contamination.

5. HEALTH INFORMATION:

Primary Routes of Exposure and Target Organs: Inhalation, skin or eye irritation, ingestion.

Signs and Symptoms of Exposure:

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(1) Acute Overexposure: Skin or eye contact may result in irritation/burning of the skin or eyes. Ingestion or overexposure by inhalation may result in weakness, lethargy, and muscle twitching. Moderately irritating to the respiratory and gastrointestinal linings.

(2) Chronic Overexposure: Ingestion of large amounts may result in severe metabolic acidosis followed by myotonia, myoglobinuria and elevated serum creatine phosphokinase. May also damage to the liver and kidney. Has been reported as an experimental carcinogen.

Medical Conditions Generally Aggravated by Exposure: Disorders of the kidneys, liver, or nervous system. Individuals with known sensitivity to chemicals should avoid contact.

Chemical/Component Listed as Carcinogen or Potential Carcinogen: None

NTP: No **IARC:** No **OSHA:** No **Other Exposure Limits:** None

Emergency and First Aid Procedures:

If Swallowed: Call a physician immediately. Give victim one or two glasses of water and induce vomiting by touching back of throat with finger. Repeat until vomit fluid is clear. Do not attempt to induce vomiting or give anything to an unconscious person.

Skin or Eye Contact: Remove contaminated clothing and wash affected areas with soap and water. If in eyes, flush with plenty of water for at least 15 minutes. Call a physician immediately.

Inhalation: Remove from exposure for at least 2 days. If symptoms occur, contact a physician.

6. REACTIVITY DATA:

Stability: Stable

Conditions to Avoid: Does not apply

Incompatibility: Strong oxidizers

Hazardous Decomposition Products: If heated above decomposition temperature, hydrogen chloride may be evolved.

Hazardous Polymerization: Will not occur

7. SPILL OR LEAK PROCEDURES:

Steps to be taken in case material is leaked or spilled: Clean up of spill may require protective equipment (See section 8). Contain spill with non-combustible absorbent material, collect into a DOT drum, cover, mark and remove.

Waste disposal method: Dispose of in accordance with Federal, State, and local regulations.

8. PERSONAL PROTECTIVE INFORMATION:

Respiratory Protection: Self-contained breathing apparatus.

Ventilation: General or local exhaust to maintain exposure below TLV/PEL.

Protective Gloves: Rubber.

Eye Protection: Chemical splash goggles or face shield.

Other Protective Clothing or Equipment: Apron, rubber shoes, or other clothing as necessary to prevent skin/eye contact.

9. SPECIAL PRECAUTION:

Precautions to be taken in handling and storing: Store in secure, dry, ventilated area, away from heat. Keep from freezing.

Other precautions: Keep away from children and pets.

10. OTHER INFORMATION:

The information contained within was obtained from authoritative sources and is believed to be accurate for the manner in which the product is intended to be used. Other uses could result in ramifications, which are not included within this document.