

**Material
Safety
Data
Sheet**
AMERICAN BRAND® 2,4-D Weed Killer
SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Name: Voluntary Purchasing Groups, Inc.	Box 460, Bonham, TX 75418
Emergency Telephone: (903) 583-5501 or (800) 424-9300 (Chemtrec)	
For Additional Information Contact: Product Manager or Chemtrec	Date Prepared: 3-14-03
Common Name (Used on Label): AMERICAN BRAND® 2,4-D Weed Killer	Chemical Family: Phenoxy Herbicide
Chemical Name: Does not apply	Formula: Mixture of dimethylamine salt of 2,4-Dichlorophenoxyacetic acid and water.
Trade Name & Synonyms: AMERICAN BRAND® 2,4-D Weed Killer EPA # 228-238-7401	

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Dimethylamine Salt of 2,4-Dichlorophenoxyacetic acid [1]	94-75-7	9.5	10 mg/m3	10 mg/m3

[1] NOTE : This is a toxic chemical and is subject to the reporting requirements of section 313 of 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.

SECTION 3 - PHYSICAL DATA

BOILING POINT (°F) 100 degrees C (2,4-D)	SPECIFIC GRAVITY (H ₂ O=1) 1.024	VAPOR PRESSURE (mm Hg) 17 mm @ 20 degrees C.
PERCENT VOLATILE BY VOLUME (%) >90	VAPOR DENSITY (AIR=1) >1	EVAPORATION RATE (butyl acetate=1) >1
SOLUBILITY IN WATER Complete	REACTIVITY IN WATER Will not evolve flammable or toxic gases.	
APPEARANCE AND ODOR Dark brown liquid; aromatic odor		

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT (°F) Will not ignite	FLAMMABLE LIMITS IN AIR (% by volume) Lower: <u>Does not apply</u> Upper: <u>Does not apply</u>	
EXTINGUISHING MEDIA Water, foam, dry chemical, CO ₂	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.

SECTION 5 - HEALTH INFORMATION**PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS**

Inhalation, skin or eye irritation, ingestion

SIGNS AND SYMPTOMS OF EXPOSURE**(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 kidneys. 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

YES NO

IARC

YES NO

OSHA

YES 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.

SECTION 6 - REACTIVITY DATA**STABILITY**

Unstable Stable

CONDITIONS TO AVOID

Does not apply

INCOMPATIBILITY (Materials to Avoid)

Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS

If heated above decomposition temperature, hydrogen chloride may be evolved.

HAZARDOUS POLYMERIZATION

May Occur Will Not occur

CONDITIONS TO AVOID

Does not apply

SECTION 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.

SECTION 8 - PERSONAL PROTECTION 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.

SECTION 9 - SPECIAL PRECAUTIONS**PRECAUTIONS TO BE TAKEN IN HANDLING & STORING**

Store in a secure, dry, ventilated area, away from heat. Keep from freezing.

OTHER PRECAUTIONS

Keep away from children and pets.

SECTION 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.