

**Material
Safety
Data
Sheet****Hi-Yield(R) Killzall Weed & Grass 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: 01/23/00
Common Name (Used on Label): Hi-Yield(R) Killzall Weed & Grass Killer	Chemical Family: Does not apply
Chemical Name: Mixture	Formula: Does not apply
Trade Name & Synonyms: Hi-Yield(R) Killzall Weed & Grass Killer	

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
isopropylamine salt of N-(phosphaonomethyl) glycine	38641-94-0	Proprietary	Not established	Not established

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) Not determined	SPECIFIC GRAVITY (H ₂ O=1) 1.17 (active ingredient)	VAPOR PRESSURE (mm Hg) Not determined
PERCENT VOLATILE BY VOLUME (%) Not determined	VAPOR DENSITY (AIR=1) Not determined	EVAPORATION RATE (ethyl ether=1) Not determined
SOLUBILITY IN WATER Very soluble	REACTIVITY IN WATER Will not evolve flammable or toxic gases	
APPEARANCE AND ODOR Clear, amber colored liquid; slight amine odor.		

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT (°F) >200 degrees F (nonflammable)	FLAMMABLE LIMITS IN AIR (% by volume) Lower: <u>Not determined</u> Upper: <u>Not determined</u>	
EXTINGUISHING MEDIA Dry chemical, CO ₂ , water spray or foam	AUTO IGNITION TEMPERATURE Not determined	
UNUSUAL FIRE AND EXPLOSION HAZARDS Not determined		
SPECIAL FIRE FIGHTING PROCEDURES Use agents suitable for type of surrounding fire. Avoid breathing hazardous vapors. Keep upwind. Utilize self-		

contained breathing apparatus with full facepiece operated in pressure demand or other positive pressure mode.

SECTION 5 - HEALTH INFORMATION

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS

Inhalation, eye and skin contact, ingestion

SIGNS AND SYMPTOMS OF EXPOSURE

(1) ACUTE OVEREXPOSURE

May cause eye, skin and mucous membrane irritation.

(2) CHRONIC OVEREXPOSURE

May cause irritation of the mucous membranes. Prolonged contact with skin may cause dermatitis. Eye contact may cause conjunctivitis.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Eye, skin, or respiratory disorders.

CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

None

NTP

YES NO

IARC

YES NO

OSHA

YES NO

OTHER EXPOSURE LIMITS

Not determined

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician. **INGESTION:** Treat symptomatically and supportively. Get medical attention immediately. If vomiting occurs, keep head lower than hips to prevent aspiration. **EYE OR SKIN CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. Flush skin with water. Wash clothing before reuse.

SECTION 6 - REACTIVITY DATA

STABILITY

Unstable Stable

CONDITIONS TO AVOID

Does not apply

INCOMPATIBILITY (Materials to Avoid)

Galvanized or unlined steel, polyethylene, plastic. May react with metal containers to produce flammable hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition may release toxic oxides of nitrogen, phosphorous and carbon.

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

Collect spilled material and place in a labeled, nonmetal or stainless steel container for later reclamation or disposal. Comply with all applicable governmental regulations concerning spill reporting, handling, and disposal of waste.

WASTE DISPOSAL METHOD

Dispose of in accordance with Federal, State, and local regulations.

SECTION 8 - PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

NIOSH/MSHA approved respiratory devices to provide high efficiency protection against particulate matter and organic vapors.

VENTILATION

General or local exhaust to maintain employee exposure below the TLV/PEL.

PROTECTIVE GLOVES

Impervious gloves to prevent skin contact.

EYE PROTECTION

Splash-proof or dust resistant safety goggles to prevent eye contact with this substance. Contact lenses should not be worn.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

When necessary utilize impervious clothing and other equipment to prevent skin contact with this substance.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING

Store in accordance with 40 CFR 165 recommended procedures for the disposal and storage of pesticide containers. Do not store in galvanized or unlined steel spray equipment as it will react with metal causing a highly combustible gas.

OTHER PRECAUTIONS

Not determined.

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.