

# SAFETY DATA SHEET

In the event of a medical or chemical emergency contact  
ChemTel, Inc. North American 1-800-255-3924 or worldwide  
Intl. + 01-813-248-0585

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

Effective Date: Dec-2014



the ferti-lome people

## Hi-Yield® Super Concentrate Killzall Weed and Grass Killer

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Hi-Yield® Super Concentrate Killzall Weed and Grass Killer  
**EPA Reg. No.:** 42750-61-7401

**COMPANY IDENTIFICATION:**

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

### 2. HAZARDS IDENTIFICATION

Clear yellow viscous liquid with slight amine like odor

**HEALTH HAZARDS:** Moderately irritating to eyes.

**PHYSICAL HAZARDS:** May react with metals such as galvanized or mild steel to produce hydrogen gas which could form a highly combustible gas mixture.

**ENVIRONMENTAL HAZARDS:** Moderately toxic to fish and aquatic plants. May be toxic to non-target plants.



### 3. COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT	PERCENTAGE	CAS NUMBER
Isopropylamine Salt of Glyphosate	41.0%	38641-94-0
Inert Ingredients	59.0 %	n/a

### 4. FIRST AID MEASURES

First Aid responders should use protective equipment in Section 8 if there is a potential for exposure to product.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF INHALED:** Move person to fresh air, if person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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### 5. FIRE FIGHTING MEASURES

National Fire Protection Rating (NFPA)

HEALTH	1
FLAMMABILITY	0
REACTIVITY	1
4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

**FLASHPOINT:** Will not flash.

**EXTINGUISHING MEDIA:** Use water spray, foam or dry chemical.

**FIRE AND EXPLOSION HAZARD:** May decompose in fire due releasing irritating or toxic gases including carbon monoxide, nitrogen oxides, phosphorous oxides.

**FIRE FIGHTING INSTRUCTIONS:** Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam or dry chemical extinguishing systems recommended to prevent environmental damage due to water run off.

**FIRE FIGHTING EQUIPMENT:** Self-contained breathing apparatus with full facepiece. Full firefighting turn-out gear (Bunker gear).

### 6. ACCIDENTAL RELEASE MEASURES

**IN CASE OF SPILLS OR LEAKS:** Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

**SMALL SPILL:** Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

**LARGE SPILL:** Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. After removal, scrub the area with detergent and water and neutralize with dilute alkaline solutions of soda ash, or lime. Do not allow washwaters to enter waterways.

### 7. HANDLING AND STORAGE

**KEEP OUT OF REACH OF CHILDREN!**

**HANDLING:** Use only in a well-ventilated area. Wear appropriate safety equipment when handling.

**STORAGE:** Store in original container with lid tightly closed. Keep away from food, feed and drinking water. Store above 15° F (-10 C). If crystallized, warm to 80-90 F and redissolve by shaking container before using product.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS (8 hour TWA, ppm):

COMPONENT	OSHA PEL	ACIGH TLV
Isopropylamine salt of glyphosate	Not Est.	Not Est.

**ENGINEERING CONTROLS:** Proper ventilation is required when handling or using this product to minimize exposure to airborne contaminants. Local mechanical exhaust ventilation may be required. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

#### PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION - Safety goggles when mixing, loading or cleaning equipment is recommended.

CLOTHING – Long-sleeved shirt and long pants, Shoes plus socks,

GLOVES – Waterproof gloves when mixing, loading or cleaning equipment is recommended.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear yellow viscous liquid
Odor:	Slight amine like
pH:	4.74
Melting Point:	Not applicable
Boiling Point:	No data
Flash Point:	Will not flash
Evaporation Rate:	No data
Flammability:	Not flammable
Flammability Limits:	Not applicable
Vapor Pressure:	25 mmHg a 24°C
Vapor Density:	Not applicable
Density:	1.15 – 1.21 g/ml (9.60 – 10.10 lb/gl)*
Solubility:	Emulsifies
Partition Coefficient:	log Pow - < 3.2 @ 25°C (glyphosate)
Auto-Ignition Temperature:	No data
Decomposition Temperature:	No data
Viscosity:	32.77 cSt @ 24°C

\*Listed density is an approximate value and does not necessarily represent that of a specific batch.

### 10. STABILITY & REACTIVITY DATA

**PRODUCT REACTIVITY:** May react with metals such as galvanized or mild steel to produce hydrogen gas which could form a highly combustible gas mixture.

**CHEMICAL STABILITY:** Stable, however may decompose if heated.

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**HAZARDOUS REACTION/POLYMERIZATION:** Product will not undergo polymerization.

**CONDITIONS TO AVOID:** Avoid temperatures above (115°F, 46°C) and below 25°F (-5°C).

**INCOMPATIBLE MATERIALS:** Strong oxidizers or bases, mild and galvanized steel.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, Nitrogen oxides, phosphorous oxides due to thermal breakdown.

### 11. TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:**

Oral LD <sub>50</sub> (rat)	- > 5,000 mg/Kg
Dermal LD <sub>50</sub> (rat)	- > 5,000 mg/Kg
Inhalation LC <sub>50</sub> (rat)	- > 2.2 mg/L
Eye Irritation (rabbit)	- Slight to moderate
Skin Irritation (rabbit)	- Slight
Sensitization (guinea pig)	- Non-sensitizer

**CARCINOGEN STATUS:**

OSHA	- Not listed
NTP	- Not listed
IARC	- Not listed

**DEVELOPMENTAL TOXICITY:** Effects on offspring only noted with maternal toxicity

**MUTAGENICITY:** No evidence of mutagenic effects during *in vivo* or *in vitro* studies.

### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL SUMMARY:** Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

**ENVIRONMENTAL FATE:** (Glyphosate acid)

Bioaccumulation - Whole fish BCF <1  
Soil Half-life - 2 - 174 days (adsorbs strongly to soil)  
Water Half-life - <7 days

**FISH TOXICITY:** (Glyphosate acid)

96 hour LC<sub>50</sub>, Rainbow trout – 5.4 mg/L  
96 hour LC<sub>50</sub>, Bluegill – 7.3 mg/L

**AVIAN TOXICITY:** (Glyphosate acid)

Dietary LC<sub>50</sub>, Bobwhite quail – >5,600 mg/Kg  
Dietary LC<sub>50</sub>, Mallard duck – >5,600 mg/Kg

**BEE TOXICITY:** (Glyphosate acid)

Contact LD<sub>50</sub> - >100 ug/bee

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### 13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures. Emptied container retains vapor and product residue.

**CONTAINER:** Non-refillable containers: Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Refillable containers: Refill this container with glyphosate only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the re-filler.

If the container cannot be refilled, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### 14. TRANSPORTATION INFORMATION

**SHIPPING DESCRIPTION:** Not regulated by DOT  
**DOT HAZARD CLASS:** N/A  
**UN NUMBER:** N/A  
**DOT PACKING GROUP:** III

### 15. REGULATORY INFORMATION

**CERCLA REPORTABLE QUANTITY:** Not listed

**SARA TITLE III STATUS:**  
311/312 Hazard Categories – Immediate Health  
313 Toxic Chemicals – None known

**CALIFORNIA PROP 65:** Not listed

**TSCA INVENTORY:** All components listed on US EPA TSCA Inventory

### 16. OTHER INFORMATION

HMIS HAZARD RATINGS	HEALTH	1
	FLAMMABILITY	0
	PHYSICAL HAZARD	1
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

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**DISCLAIMER:** The information presented herein is based on available data from reliable sources and is correct to the best of Voluntary Purchasing Groups Inc.'s knowledge. Voluntary Purchasing Groups Inc. makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling.

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

**REVISED DATE:** December, 2014

**REFERENCE:** Revised for GHS compliance