

SAFETY DATA SHEET



the ferti-lome people

Hi-Yield® KillZall II Weed and Grass Killer RTU

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: May 21, 2015

1. PRODUCT AND COMPANY IDENTIFICATION:

Product Name: Hi-Yield® KillZall II Weed and Grass Killer RTU
EPA Reg. No.: 42750-66-7401

Chemical Name: Isopropylamine Salt of Glyphosate
Product Use: Herbicide

COMPANY IDENTIFICATION:

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

2. HAZARDS IDENTIFICATIONS:

Light yellow liquid

HEALTH HAZARDS: Warning. Mildly 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	1.92	38641-94-0
Inert Ingredients	98.08	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 and applying product.

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:	Light yellow liquid
Odor:	No data
pH:	4.1 – 5.1
Melting Point:	Not applicable
Boiling Point:	No data
Flash Point:	Not applicable
Evaporation Rate:	No data
Flammability:	Not flammable
Flammability Limits:	Not applicable
Vapor Pressure:	2.1×10^{-3} mPa (25°C) (Glyphosate IPA technical)
Vapor Density:	Not applicable
Density:	0.99 – 1.03 g/ml (8.26 – 8.60 lb/gl)*
Solubility:	Emulsifies
Partition Coefficient:	log P = -5.4 (20°C) (Glyphosate IPA technical)
Auto-Ignition Temperature:	No data
Decomposition Temperature:	No data
Viscosity:	1.09 cSt (20°C); 0.74 cSt (40°C)

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

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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.

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 ₅₀ (rat)	No data
Dermal LD ₅₀ (rat)	No data
Inhalation LC ₅₀ (rat)	No data
Eye Irritation (rabbit)	No data
Skin Irritation (rabbit)	No data
Sensitization (guinea pig)	No data

CARCINOGEN STATUS:

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

DEVELOPMENTAL TOXICITY/TERATOGENICITY: 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 LC₅₀, Rainbow trout – > 1,000 mg/L

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96 hour LC₅₀, Bluegill – > 1,000 mg/L

AVIAN TOXICITY: (Glyphosate acid)

Dietary LC₅₀, Bobwhite quail – >4,600 mg/Kg

Dietary LC₅₀, Mallard duck – >4,600 mg/Kg

BEE TOXICITY: (Glyphosate acid)

Contact LD₅₀ - >100 ug/bee

13. DISPOSAL INFORMATION:

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

PESTICIDE DISPOSAL: Waste resulting from use of this product may be disposed of on site or at an approved waste facility.

CONTAINER: Non-refillable containers: Do not reuse or refill this container. Offer for recycling, if available.

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	

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

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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.