

MATERIAL 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: May 8, 2012

Hi-Yield® Super Concentrate Killzall II

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Hi-Yield® Super Concentrate Killzall II
EPA Reg. No.: 42750-61-7401

COMPANY IDENTIFICATION:

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

2. COMPOSITION / INFORMATION ON INGREDIENTS:

Isopropylamine Salt of Glyphosate (CAS# 38641-94-0) 41.0%
Inert Ingredients (no CAS#) 59.0%

ACGIH: Not Established
OSHA: Not Established

3. HAZARDOUS IDENTIFICATIONS:

HEALTH HAZARDS: Moderate eye irritant.

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.

4. FIRST AID:

FIRST AID FOR 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.

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

5. FIRE FIGHTING MEASURES:

FLASH POINT: Will not flash.

FLAMMABLE LIMITS: Not Established.

FIRE AND EXPLOSION HAZARD: May decompose in fire due releasing irritating or toxic gases.

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

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.

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

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, nitrogen oxides, phosphorous oxides.

6. ACCIDENTAL RELEASE MEASURES:

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.

Wear appropriate personal protection equipment. (See Section 8 Exposure Controls, Personal Protection.)

7. HANDLING AND STORAGE:

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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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

EXPOSURE LIMITS (8 HOUR TWA, ppm): Refer to Section 3.

ENGINEERING CONTROLS: Proper ventilation is required when handling or using this product to keep exposure airborne contaminants below the exposure limit. Local mechanical exhaust ventilation may be required. Facilities storing or utilizing this material should be equipped with an eye wash 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 s 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 PAROPERTIES:

PHYSICAL DESCRIPTION: Clear yellow to amber liquid.

ODOR: Slight amine like.

SPECIFIC GRAVITY: 1.15 – 1.21 g/ml (9.60 – 10.10 lb/g)*

pH: 4.4

WATER SOLUBILITY: Emulsifies.

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

10. STABILITY AND REACTIVITY:

CHEMICAL STABILITY: Stable, however may decompose if heated.

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

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizers or bases, mild and galvanized steel.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Nitrogen oxides, Phosphorus oxides.

11. TOXICOLOGICAL INFORMATION:

ACUTE TOXICITY

ORAL LD ₅₀ (rat)	- >5,000 mg/kg
DERMAL LD ₅₀ (rat)	- >5,000 mg/kg (male)
INHALATION LC ₅₀ (rat)	- >2.5 mg/L
EYE IRRITATION (rabbit)	- Moderate
SKIN IRRITATION (rabbit)	- Mild
SENSITIZATION (guinea pig)	- Non-sensitizer

CARCINOGEN STATUS:

OSHA	- Not listed
NTP	- Not listed

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IARC - Not listed

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

ADDITIONAL DATA: None.

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.

FISH TOXICITY: (Glyphosate acid)
96 hour LC₅₀, Rainbow trout – 8.2 mg/L
96 hour LC₅₀, Bluegill – 5.8 mg/L

AVIAN TOXICITY: (Glyphosate acid)
Oral LD₅₀, Bobwhite quail - >3,800 mg/Kg
Oral LD₅₀, Mallard duck – Unknown

BEE: Non-toxic

13. DISPOSAL CONSIDERATIONS:

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

WASTE: 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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

PESTICIDE DISPOSAL: Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

14. TRANSPORT INFORMATION:

Not regulated by DOT or IMDG.

15. REGULATORY INFORMATION:

CERCLA REPORTABLE QUANTITY: Not listed

SARA TITLE III STATUS:

SECTION 311/312 HAZARD CATEGORIES: Immediate health hazard

SECTION 313 TOXIC CHEMICALS: None

CALIFORNIA PROP 65: Not listed

16. OTHER INFORMATION:

HMS HAZARD RATINGS: Health 2 Flammability 0 Physical Hazard 1

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESS OR IMPLIED, IS MADE. CONSULT VPG, INC. FOR FURTHER INFORMATION.