MATERIAL SAFETY DATA SHEET

Hi-Yield Super Concentrate KILLZALL Weed & Grass Killer

DATED: 3-30-04

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Name: Voluntary Purchasing Groups, Inc., P. O. Box 460, Bonham, Texas 75418

Emergency Telephone: (903) 583-5501 or (800) 424-9300 (Chemtrec) For Additional Information Contact: Product Manager or Chemtrec

Common Name (Used on Label): Hi-Yield Super Concentrate KILLZALL Weed & Grass Killer

EPA# 7401-451

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

 INGREDIENTS:
 CAS. Reg. #
 Approx. %
 TLV

 AU-392-C
 N/A Mixture
 Less Than 15%
 N/A

 Glyphosate***
 1071-86-6
 41%
 N/A

***Hazardous chemicals under the criteria of the OSHA Hazard Communication Standard (29 CFR 19.10.1200)

SECTION 3 - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: N/A VAPOR PRESSURE (mm/Hg): N/A MELTING POINT: N/A VAPOR DENSITY (air=1): N/A SPECIFIC GRAVITY: 1.17 (Water - 1) REACTIVITY IN WATER: N/A

SOLUBILITY IN WATER: Soluble

APPEARANCE AND ODOR: Amber-colored solution; practically odorless to slight amine-like odor.

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: >93°C (>200°F) (Pensky Martens closed tester)

FLAMMABLE LIMITS: N/A LEL: N/A UEL: N/A EXTINGUISHER MEDIA: Water spray, foam, dry chemical, carbon dioxide or any class B

extinguishing agent.

SPECIAL FIRE FIGHTING PROCEDURES: Fight fire upwind. Avoid heavy hose streams. Dike area to prevent water

runoff. Firefighters and others that may be exposed to vapors, mists, or products of combustion should wear full protective clothing and self-containing breathing apparatus. Equipment should be thoroughly

cleaned after use.

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

STABILITY: This product is stable for at least 5 years under normal conditions

of warehouse storage.

CONDITIONS TO AVOID: None

INCOMPATIBILITY, MATERIAL TO AVOID:Do not mix, store or apply this product or spray solutions of this

product in galvanized or unlined steel (except stainless steel)

containers or spray tanks.

This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark welder's torch lighted cigarettes or other ignition source. None. However, the essential breakdown products are carbon

HAZARDOUS DECOMPOSITION PRODUCTS: None. However, the essential breakdown products are carbon

monoxide, carbon dioxide, phosphorus pentoxide and nitrogen

oxide.

HAZARDOUS POLYMERIZATION: Does not occur. This product can react with caustic (basic)

materials to liberate heat. This is not a polymerization, but rather

a chemical neutralization in an acid base reaction.

CONDITIONS TO AVOID (POLY): None

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SECTION 6 - HEALTH HAZARDS

A. EXPOSURE LIMTS

OSHA Permissible Exposure Limit (PEL): Not Established

Threshold Limit Value (TLV): N/A

B. ROUTE OF ENTRY

Inhalation:YesEyes:NoIngestion:NoSkin:Yes

C. HEALTH HAZARD, ACUTE AND CHRONIC:

Eye Contact: May cause pain, redness and tearing based on toxicity studies.

Skin Contact: Is no more than slightly toxic and no more than slightly irritating based on toxicity studies. Is no more than slightly toxic based on toxicity studies. No significant adverse health effects are

expected to develop if only small amounts (less than a mouthful) are swallowed. Ingestion of similar formations has been reported to produce gastrointestinal discomfort with irritation of the mouth, nausea, vomiting and diarrhea. Oral ingestion of large quantities of one similar product

has been reported to result in hypotension and lung edema.

Inhalation: Is no more than slightly toxic if inhaled based on toxicity studies.

D. EMERGENCY FIRST AID PROCEDURES:

Eyes: Immediately hold eyelids open and flush with plenty of water for at least 15 minutes. Get medical

attention.

If Swallowed: This product will cause gastrointestinal tract irritation. Immediately dilute by swallowing water or

milk. Get medical attention.

Inhalation: Remove individual to fresh air. If not breathing, give artificial respiration, preferably mouth-to-

mouth. Get medical attention.

E. ADDITIONAL INFORMATION:

For additional human emergency first aid or treatment guidance, call 800-424-9300.

SECTION 7 - STORAGE AND DISPOSAL & SPILL/LEAK PROCEDURES

HANDLING: Do not get in eyes or on clothing. Avoid breathing vapor or spray mist. 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. Spray solutions of the product should be mixed, stored or applied using only stainless steel, aluminum, fiberglass, plastic or plastic-lined containers. Do not mix, store or apply this product or spray solutions of this product in galvanized or unlined steel (except stainless steel) containers or spray tanks. 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 disposing of equipment washwaters.

STORAGE: Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

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. Observe all labeled safeguards until container is cleaned or destroyed. **DO NOT CUT OR WELD ON OR NEAR THIS**

CONTAINER.

Plastic Containers: Do not reuse container. Triple rinse container. Then 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.

ACCIDENTAL RELEASE OF MATERIAL & WASTE DISPOSAL METHODS:

Small Spills on the floor or other impervious surface, should be soaked up with towels or other absorbent material and discard in the trash. Clean the spill area with soap and water and rinse the area thoroughly.

Large Liquid Spills on the floor or other impervious surface should be contained or diked and absorbed with attapulgite, benionite or other absorbent clays. Collect the contaminated absorbent, place in a metal drum and dispose of in accordance with applicable Federal, State or Local procedures. Thoroughly scrub floor or other impervious surface with a strong industrial detergent and rinse with water.

SECTION 8 - SPECIAL PROTECTION/CONTROL MEASURES

VENTILATION: No special precautions are recommended.

SPECIAL VENTILATION: N/A

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EYE PROTECTION: Wear chemical splash goggles during mixing/pouring operations or other activities in which

eye contact with the undiluted solution is likely to occur.

SKIN PROTECTION: Wear appropriate protective clothing to prevent skin contact. Applicators and other

handlers must wear long-sleeved shirt, long pants, shoes plus socks and protective eyewear. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

SECTION 9 - ENVIRONMENTAL EFFECTS DATA

This product has been shown to be slightly to moderately toxic in aquatic studies and has been shown to be practically non-toxic to avian species following subacute dietary exposure.

SECTION 10 - TRANSPORTATION DATA

PROPER SHIPPING NAME: N/A
DOT HAZARD CLASS/ID NO. N/A
D.O.T. HAZARD CLASS: N/A

U.S. SURFACE FREIGHT CLASSIFICATION: Weed killing compound, N.O.I.B.N

ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Voluntary Purchasing Groups, inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Voluntary Purchasing Groups, Inc. has been advised of the possibility of such damages.