SAFETY DATA SHEET
EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

1. IDENTIFICATION

PRODUCT NAME: Hi-Yield® Range and Pasture Picloram + D
DESCRIPTION: A water soluble liquid herbicide.
EPA Reg. No.: 81927-16-7401
COMPANY IDENTIFICATION:
Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, TX 75418

2. HAZARD IDENTIFICATION

DANGER
Causes serious eye damage
May cause an allergic skin reaction
Causes mild skin irritation
May be harmful if swallowed
May be harmful in contact with skin

Flammable liquid and vapor
Toxic to aquatic life

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Chemical Name</th>
<th>CAS #</th>
<th>Composition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picloram</td>
<td>4-amino-3,5,6-trichloropicolinic acid</td>
<td>1918-02-1</td>
<td>10.2%</td>
</tr>
<tr>
<td>2,4-D Trisopropanolamine (TIPA)</td>
<td>2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt</td>
<td>32341-80-3</td>
<td>39.6%</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>5.0%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Immediately call a doctor or poison control center. Do not give any liquid to the person. 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. If skin irritation or rash occurs: Get medical attention/advice.

NOTE TO PHYSICIAN: Probably mucosal damage may contraindicate the use of gastric lavage.
5. FIREFIGHTING MEASURES

Flash Point (TCC): > 44°C (> 111°F)  
Flammable Limits (LFL-UFL): Unknown  
Fire and Explosion Hazards: May thermally decompose in fire releasing irritating and toxic gasses.  
Extinguishing Medium: Foam, dry extinguishing media, CO₂, water spray.  
Fire Fighting Instructions: Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.  
Fire Fighting Equipment: Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.  
Hazardous Combustion Products: Thermal decomposition will produce nitrogen oxide, sulfur oxides, carbon oxides (CO, CO₂), and aniline.  
NFPA Ratings: Health – 2 / Flammability – 2 / Reactivity - 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document.  
Small Spills: Absorb using sand, vermiculite or other inert absorbent. Place contained material in appropriate container for disposal.  
Large Spills: Dike spillage and recover and retain as much free liquid as possible for reuse. Pick up remainder with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. After removal, thoroughly clean contaminated area with water. Collect wash water for approved disposal.

7. HANDLING AND STORAGE

Handling: Use only in a well-ventilated area. Wear suitable personal protective clothing and equipment (see Section 8 of this SDS). 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. As soon as possible, wash thoroughly and change into clean clothing. Keep away from food, drink and animal feed.  
Storage: Keep in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Local mechanical exhaust ventilation may be required. Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

For containers of 5 gallons or more: Do not open pour product from this container. A mechanical system (such as probe and pump or spigot) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal. If the mechanical system is used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)], the handler PPE requirements may be reduced or modified as specified in the WPS.

For Containers over 1 Gallon but Less Than 5 Gallons: Mixers and loaders who do not use a mechanical system (such as probe and pump) to transfer the contents of this container must wear coveralls or a chemical-resistant apron in addition to other required PPE.

**Protective Clothing:** Wear long-sleeved shirt and long pants, shoes, socks, chemical resistant gloves (such as barrier laminate, butyl, nitrile or neoprene rubber, polyvinyl or Viton), and protective eyewear. When handling in enclosed areas or areas with limited ventilation, use a respirator with either an organic vapor cartridge with a pre-filter approve for pesticides (MSHA/NIOSH TC-23C) or a canister approved for pesticides (MSHA/NIOSH TC-14G).

**General:** Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use; replace if necessary (e.g. pinhole leaks). Remove PPE immediately after handling this product; wash the outside of gloves before removing. Wash clothing and other absorbent materials that have been exposed to this product. Follow the manufacturer’s instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Amber Liquid  
**Odor:** Alcohol-like  
**pH:** 6.5 – 7.0  
**Specific Gravity:** 1.14 @ 20°C  
**Vapor Pressure:** 32mmHg @ 20°C  
**Solubility:** Miscible

10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Temperatures above 40°C (105°F) and below 6°C (40°F)  
**CHEMICAL STABILITY:** Stable under normal use and storage conditions. May decompose if heated.  
**SUBSTANCES TO AVOID:** Strong acids and oxidizing materials.  
**HAZARDOUS REACTIONS:** This product is chemically stable. No hazardous reactions if stored and handled as prescribed/indicated.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen chloride and oxides of nitrogen.  
**HAZARDOUS POLYMERIZATION:** Will not occur.
11. TOXICOLOGICAL INFORMATION

**ORAL TOXICITY** (rat LD<sub>50</sub>):  > 2,000 mg/kg

**DERMAL TOXICITY** (rat LD<sub>50</sub>):  > 2,000 mg/kg

**INHALATION TOXICITY** (rat LC<sub>50</sub>):  Data not available

**EYE IRRITATION:**  Moderately irritating, may cause corneal injury

**SKIN IRRITATION:**  Moderately irritating

**SKIN SENSITIZATION:**  Potential sensitizer.

**CARCINOGENICITY:**
- **EPA:**  Not Listed
- **ACGIH:**  Not Listed
- **NTP:**  Not Listed
- **IARC:**  Class 2B (chlorophenoxy herbicides)
- **OSHA:**  Not Listed

**MUTAGENIC TOXICITY:**  Little evidence of mutagenic effects during *in vivo* or *in vitro* studies.

**REPRODUCTIVE TOXICITY:**  No evidence in animal studies.

**DEVELOPMENTAL TOXICITY / TERATOGENICITY:**  No evidence in animal studies.

12. ECOLOGICAL INFORMATION

This pesticide is toxic to fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This pesticide is toxic to some plants at very low concentrations. Non-target plants may be adversely affected if pesticide is allowed to drift from areas of application.

Picloram is known to leach through soil into groundwater under certain conditions as a result of agricultural use. 2,4-D has properties and characteristics associated with chemicals detected in groundwater. Use of these chemicals in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This product can contaminate surface water through spray drift. Under some conditions, picloram may also have a high potential for runoff into surface water (primarily via dissolution in runoff water). These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas over-laying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetative filter strips, and areas over-laying tile drainage systems that drain to surface water.

13. DISPOSAL CONSIDERATIONS

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

**PESTICIDE DISPOSAL:**  Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:**  Nonrefillable container, do not reuse or refill this container. Refer to product label for specific container disposal instructions.
14. TRANSPORT INFORMATION

US DOT (shipped by land):
Containers < 119 Gallons (450 Liters):
Not regulated by DOT.

Containers > 119 Gallons (450 Liters):
DOT Shipping Name: NA1993, Combustible Liquid, N.O.S. (contains Isopropanol), PG III
DOT Emergency Response Guide: 128
Reportable Quantity: 100 lbs. (100 gallons of product)

SHIPMENTS BY AIR OR VESSEL:
DOT Shipping Name: UN1993, Flammable Liquid, N.O.S. (contains Isopropanol), 3, PG III
DOT Emergency Response Guide: 128
Reportable Quantity: 100 lbs. (100 gallons of product)

Marine Pollutant: Yes (2,4-D)

15. REGULATORY INFORMATION

FIFRA –
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER. Causes irreversible eye damage. Harmful if swallowed. Do not get in eyes or on clothing. Prolonged or frequent repeated skin contact may cause allergic reactions in some individuals.

See inside label booklet for additional Precautionary Statements and Directions for Use including Storage and Disposal instructions.

ENVIRONMENTAL HAZARDS
This pesticide is toxic to fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This pesticide is toxic to some plants at very low concentrations. Non-target plants may be adversely affected if pesticide is allowed to drift from areas of application. Do not apply directly to water, or 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 or rinsate.

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PHYSICAL OR CHEMICAL HAZARDS
Combustible. Do not use or store near heat or open flame.
15. REGULATORY INFORMATION (CONT.)

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

SARA Title III – Section 302 Extremely Hazardous Substances
Not listed

SARA Title III – Section 311/312 Hazard Categories
Immediate, Delayed, Fire

SARA Title III – Section 312 Threshold Planning Quantity
N/A

SARA Title III – Section 313 Reportable Ingredients
Picolram (CAS #1918-02-1): 5.7%
2,4-D Acid (CAS #94-75-7): 21.2%
Isopropyl Alcohol (CAS #67-63-0): 5.0%

CERCLA –
2,4-D Acid (CAS #94-75-7): 100 lbs.

CALIFORNIA PROP 65 STATUS –
This product does not contain any chemical known to the state of California to cause cancer or reproductive toxicity.

CANADA –
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

16. OTHER INFORMATION

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-accepted label.

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SDS Version: 1.0

Effective Date: 07/24/2015