



**VOLUNTARY PURCHASING GROUPS, INC.**

## Safety Data Sheet Hi-Yield Super Concentrate Killzall 4+ Weed & Grass Killer

---

### SECTION 1: Identification

#### Product identifier

Product name Hi-Yield Super Concentrate Killzall 4+ Weed & Grass Killer  
Product number 33701  
Brand Hi-Yield  
Substance name Glyphosate, isopropylamine salt

#### Other means of identification

EPA Reg. No. 7401-506

#### Supplier's details

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

#### Emergency phone number(s)

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

---

### SECTION 2: Hazard identification

#### Classification of the substance or mixture

- Acute toxicity, inhalation, Cat. 4
- Serious eye damage/eye irritation, Cat. 2B
- Corrosive to metals, Cat. 1
- Acute hazards to the aquatic environment, Cat. 2

#### GHS label elements, including precautionary statements

##### Pictogram



##### Signal word

**Warning**

# Safety Data Sheet

## Hi-Yield Super Concentrate Killzall 4+ Weed & Grass Killer

### Hazard statement(s)

H332	Harmful if inhaled
H320	Causes eye irritation
H290	May be corrosive to metals
H401	Toxic to aquatic life

### Precautionary statement(s)

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P304+P340	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P264	Wash hands thoroughly after handling.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P234	Keep only in original container.
P390	Absorb spillage to prevent material-damage.
P406	Store in a corrosive resistant container with a resistant inner liner.
P273	Avoid release to the environment.
P501	Dispose of contents/container to in accordance with Federal, State and local regulations.

### Other hazards which do not result in classification

This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

---

## SECTION 3: Composition/information on ingredients

### Mixtures

Substance name: Glyphosate, isopropylamine salt

The product contains a nominal concentration of 41.0 % w/w of active as its Isopropylamine salt which is equivalent to 30.4% w/w active glyphosate (CAS 1071-83-6)

### Hazardous components

Component	Concentration
Glyphosate-isopropylammonium (CAS no.: 38641-94-0)	41 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

---

## SECTION 4: First-aid measures

### Description of necessary first-aid measures

General advice	Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also call CHEMTREC at 800-424-9300 for emergency medical treatment information.
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.
In case of skin contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

# Safety Data Sheet

## Hi-Yield Super Concentrate Killzall 4+ Weed & Grass Killer

In case of eye contact	Hold eye open and rinse slowly and gently with water for 15 to 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

### Indication of immediate medical attention and special treatment needed, if necessary

None/Treat symptomatically

---

## SECTION 5: Fire-fighting measures

### Suitable extinguishing media

Use foam, dry chemical, carbon dioxide, or water fog when fighting fires involving this product. Do not use water jet, as this may spread burning material. Minimize the use of water to avoid environmental contamination. Contain all runoff.

### Specific hazards arising from the chemical

Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Thermal decomposition during a fire can produce fumes and irritating gases.

### Special protective actions for fire-fighters

Keep people away. Isolate fire and deny unnecessary entry. Evacuate the area and fight the fire from upwind at a safe distance to avoid hazardous vapors or decomposition products. Dike and collect fire-extinguishing water to prevent environmental damage and excessive waste runoff.

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Use full face shield and operate in positive pressure mode. Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections

### Further information

Flammability classification (OSHA 29 CFR 1910.1200): Non-Combustible.

Flash point: >200°F

---

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to SECTION 7: HANDLING AND STORAGE, for additional precautionary measures. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION.

### Environmental precautions

Prevent from entering soil, ditches, sewers, waterways and/or groundwater.

### Methods and materials for containment and cleaning up

Control the spill at its source.

Small spills: Contain spilled material if possible. Apply suitable absorbent, absorb in earth, sand or absorbent material and sweep up. Collect in suitable and properly labeled containers.

# Safety Data Sheet

## Hi-Yield Super Concentrate Killzall 4+ Weed & Grass Killer

Large spills: Refer to SECTION 13: DISPOSAL CONSIDERATIONS, for additional information. Prevent entry into waterways, sewers, basements or confined areas.

---

### SECTION 7: Handling and storage

#### Precautions for safe handling

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not swallow. Avoid breathing dust. Use with adequate ventilation. Wear long-sleeved shirt, long pants and shoes with socks when handling. Keep away from heat, sparks and flame.

#### Conditions for safe storage, including any incompatibilities

Store in a cool, dry, ventilated and secure area designated specifically for pesticides and away from heat sources. Keep in original containers and keep containers closed when not in use. Do not store in excessive heat. Do not store near children, food, foodstuffs, drugs or potable water supplies.

---

### SECTION 8: Exposure controls/personal protection

#### Control parameters

##### 1. Glyphosate, isopropylamine salt

5mg/m<sup>3</sup> (ACGIH)

THIS SECTION IS FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD REFER TO THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

#### Appropriate engineering controls

No special requirements when used as recommended.

#### Individual protection measures, such as personal protective equipment (PPE)

##### Eye/face protection

Eye contact should be avoided through the use of chemical safety glasses, goggles, or a face shield selected in regard to exposure potential. Wear chemical splash goggles to prevent vapors or mists from entering the eyes. Where there is potential for eye contact have eye flushing equipment available. Safety glasses with side-shields.

##### Skin protection

Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. Safety shower should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly. Items which cannot be decontaminated, such as shoes, belts and watchbands, should be removed and disposed of properly.

##### Body protection

Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. Safety shower should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly. Items which cannot be decontaminated, such as shoes, belts and watchbands, should be removed and disposed of properly.

##### Respiratory protection

Not normally required. Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. When handling in enclosed areas, when large quantities of mists are generated or prolonged exposure is possible in excess of the TLV, use a respirator with either an organic vapor-removing cartridge

## Safety Data Sheet

### Hi-Yield Super Concentrate Killzall 4+ Weed & Grass Killer

with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

---

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Amber Liquid
Odor	Slight chemical
Odor threshold	
pH	4.5 - 5.5
Melting point/freezing point	
Initial boiling point and boiling range	
Flash point	> 200°F
Evaporation rate	
Flammability (solid, gas)	
Upper/lower flammability limits	
Vapor pressure	
Vapor density	
Relative density	9.8 lbs/gal
Solubility(ies)	
Partition coefficient: n-octanol/water	
Auto-ignition temperature	
Decomposition temperature	
Viscosity	40 -50 cps @ 20°C
Explosive properties	
Oxidizing properties	

---

## SECTION 10: Stability and reactivity

### Reactivity

Thermally stable at typical use temperatures and in closed containers.

### Chemical stability

Stable under recommended storage conditions.

### Conditions to avoid

Avoid heat of open flame. Avoid high temperatures above 130°F (54.4°C).

### Incompatible materials

Reacts with galvanized steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

### Hazardous decomposition products

Decomposition products can include and are not limited to: Carbon oxides, nitrogen oxides, and phosphorus oxides.

---

## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Glyphosate-isopropylammonium  
LD50 Oral - Rat - > 5,000mg/kg

Glyphosate-isopropylammonium

## Safety Data Sheet

### Hi-Yield Super Concentrate Killzall 4+ Weed & Grass Killer

LD50 Skin - Rat - > 5,000mg/kg

Glyphosate-isopropylammonium  
LC50 Inhalation - Rat - > 2.9mg/L

#### **Serious eye damage/irritation**

Glyphosate-isopropylammonium  
Eyes - Rabbit - Slight Irritation

#### **Carcinogenicity**

This product does not contain any materials which are classified as Carcinogenic by OSHA, ACGIH, or NTP. Glyphosate has been classified by the International Agency for Research on Cancer (IARC) as "probable human carcinogen (Group 2A)"

---

## SECTION 12: Ecological information

#### **Toxicity**

Moderately toxic to fish, slightly toxic to aquatic invertebrates and plants and practically non-toxic to birds and bees

#### **Persistence and degradability**

Absorbs strongly to soil.

#### **Bioaccumulative potential**

Moderately to partially biodegradable, no significant bioaccumulation expected

#### **Mobility in soil**

Low potential for leaching into groundwater or moving to deeper soil layers.

#### **Other adverse effects**

Do not contaminate water supplies, lakes, streams, ponds or drains with this product.

---

## SECTION 13: Disposal considerations

#### **Disposal of the product**

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws

---

## SECTION 14: Transport information

#### **DOT (US)**

Not dangerous goods

#### **IMDG**

Not dangerous goods

#### **IATA**

Not dangerous goods

# Safety Data Sheet

## Hi-Yield Super Concentrate Killzall 4+ Weed & Grass Killer

---

### SECTION 15: Regulatory information

#### Safety, health and environmental regulations specific for the product in question

##### California Prop. 65 Components

This product can expose you to chemicals including Glyphosate, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

##### Labeling requirements under FIFRA

This product is a pesticide registered by the Environmental Protection Agency (EPA) and is subject to certain FIFRA labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

##### SARA 302 Components

This material is not known to contain any Extremely Hazardous Substances.

##### SARA 311/312 Hazards

Immediate (Acute) Health Hazard: Yes

Delayed (Chronic) Health Hazard: No

Fire Hazard: No

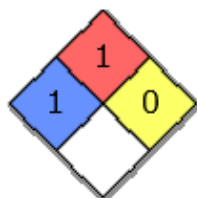
Reactive Hazard: No

Sudden Release of Pressure Hazard: No

##### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

##### NFPA Rating



---

### SECTION 16: Other information