



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Hi-Yield Super Concentrate Killzall II Herbicide

SECTION 1: Identification

Product identifier

Product name Hi-Yield Super Concentrate Killzall II Herbicide
Product number 33704
Brand Hi-Yield
Substance name Glyphosate, isopropylamine salt

Other means of identification

EPA Reg. No. 19713-526-7401

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 (chapter 3.1), Cat. 4
- Serious eye damage/eye irritation (chapter 3.3), Cat. 2B
- Corrosive to metals (chapter 2.16), Cat. 1
- Acute hazards to the aquatic environment (chapter 4.1), Cat. 2

GHS label elements, including precautionary statements

Pictogram



Signal word

Warning

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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

Substances

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)

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.

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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/m³ (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

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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 - 5.0
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	9.89 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

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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

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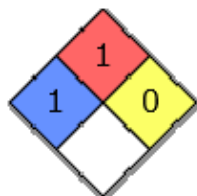
SECTION 15: Regulatory information

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.

NFPA Rating



SECTION 16: Other information