



VOLUNTARY PURCHASING GROUPS, INC.

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

SECTION 1: Identification

GHS Product identifier

Product name Hi-Yield Super Concentrate Killzall 4+ Weed & Grass Killer
Product number 33701
Brand Hi-Yield

Other means of identification

EPA Reg. No. 7401-506

Recommended use of the chemical and restrictions on use

Herbicide

Supplier's details

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

Telephone 855-270-4776

Emergency phone number

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

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Eye damage/irritation, Cat. 2B
- Acute toxicity, inhalation, Cat. 4
- Corrosive to metals, Cat. 1

GHS label elements, including precautionary statements

Pictograms



Signal word

Warning

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Hazard statement(s)

H320	Causes eye irritation
H412	Harmful to aquatic life with long lasting effects
H332	Harmful if inhaled
H290	May be corrosive to metals
H401	Toxic to aquatic life

Precautionary statement(s)

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.
P273	Avoid release to the environment.
P391	Collect spillage.
P501	Dispose of contents/container to in accordance with Federal, State and local regulations.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor/.../ if you feel unwell.
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.
P102	Keep out of reach of children.
P103	Read label before use.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Glyphosate-isopropylammonium (CAS no.: 38641-94-0)	41 %
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.

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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.

Most important symptoms/effects, acute and delayed

May cause moderate eye irritation.

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

None expected. For ingestion there is no specific antidote available. 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.

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

Reference to other sections

SECTION 7

SECTION 8

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-isopropylammonium (CAS: 38641-94-0)

Appropriate engineering controls

Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.

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

Eye/face protection

To avoid contact with eyes, wear chemical goggles. An emergency eyewash or water supply should be readily accessible to the work area.

Skin protection

To avoid contact with skin, wear long pants, long-sleeved shirt, socks and shoes. Washing facilities should be readily accessible to the work area.

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 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).

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SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Amber liquid
Odor	Slight chemical
Odor threshold	No information available
pH	4.5- 5.5
Melting point/freezing point	No information available
Initial boiling point and boiling range	No information available
Flash point	> 200F
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	9.8 lbs/gal
Solubility(ies)	No information available
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	40 -50 cps @ 20°C
Additional properties	
Physical state	Liquid
Color	Amber

SECTION 10: Stability and reactivity

Reactivity

Thermally stable at typical use temperatures and in closed containers.

Chemical stability

This material is stable under normal handling and storage conditions

Possibility of hazardous reactions

Will not occur

Conditions to avoid

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

Incompatible materials

Strong oxidizing agents: bases and acids. This product reacts with galvanized steel or unlined steel (except stainless steel) to produce hydrogen gas that may form a highly combustible gas mixture which could flash or 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
LD50 Skin - Rat - > 5,000mg/kg

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LC50 Inhalation - Rat - > 2.9mg/L
Eyes - Rabbit - Slight Irritation

Skin corrosion/irritation

No information available

Serious eye damage/irritation

Glyphosate-isopropylammonium
Eyes - Rabbit - Slight Irritation

Respiratory or skin sensitization

Low inhalation toxicity.

Germ cell mutagenicity

No information available

Carcinogenicity

Prolonged overexposure to glyphosate may cause effects to the liver. EPA has given glyphosate a Group E classification (evidence of non-carcinogenicity in humans). Canada PMRA has classified glyphosate as non-carcinogenic. In 2015 IARC classified glyphosate as a probable human carcinogen Group 2A based on limited human evidence and some evidence in animals.

Reproductive toxicity

In laboratory animal studies with glyphosate, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

Specific target organ toxicity (STOT) - single exposure

No information available

Specific target organ toxicity (STOT) - repeated exposure

Repeated overexposure to glyphosate may decrease body weight gains and effects to liver.

Aspiration hazard

No information available

SECTION 12: Ecological information

Toxicity

Data on Glyphosate IPA
96-hour LC50 Rainbow Trout: >1000 mg/l
48-hour EC50 Daphnia: 930 mg/l
72-hour ErC50 Algae: 166 mg/l

Persistence and degradability

In the environment glyphosate adsorbs strongly to soil and is expected to be immobile in soil. Glyphosate is readily degraded by soil microbes to AMPA (aminomethyl phosphonic acid) that is further degraded to carbon dioxide. Glyphosate and AMPA are unlikely to enter ground water due to their strong adsorptive characteristics. Terrestrially applied glyphosate has the potential to move into surface waters through soil erosion because it may be adsorbed to soil particles suspended in the runoff.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Wastes resulting from 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.

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Packaging disposal

Nonrefillable Containers 5 Gallons or Less: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

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

California Prop. 65 Components

GLYPHOSATE

WARNING! This product contains a chemical known to the State of California to cause cancer.

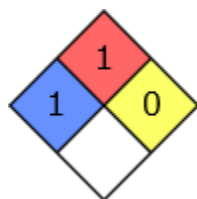
SARA 313 Components

None

SARA 311/312 Hazards

Product name: Hi-Yield Super Concentrate Killzall 4+ Weed & Grass Killer

NFPA Rating



SECTION 16: Other information

Further information/disclaimer

Voluntary Purchasing Groups, Inc. believes the information presented herein is accurate and correct as of the document date. The presented information is based upon available data from reliable sources. Voluntary Purchasing Groups, Inc. makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.