



VOLUNTARY PURCHASING GROUPS, INC.

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

SECTION 1: Identification

GHS Product identifier

Product name Hi-Yield Super Concentrate Killzall Weed & Grass Killer
Product number 33691; 33692; 33692Q; 33693
Brand Hi-Yield

Other means of identification

EPA Reg. No. 7401-451

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

GHS label elements, including precautionary statements

Pictograms



Signal word

Warning

Hazard statement(s)

H320

Causes eye irritation

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H412 Harmful to aquatic life with long lasting effects

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.
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.	
Inert ingredients	59 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice First Aid responders should use protective equipment in Section 8 if there is a potential for exposure to product.

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 15-20 minutes. Call a poison control center or doctor for treatment advice.

In case of eye contact Hold eye open and rinse slowly and gently with water for 15-20 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Personal protective equipment for first-aid responders First Aid responders should use protective equipment in Section 8 if there is a potential for exposure to product.

Most important symptoms/effects, acute and delayed

May cause moderate eye irritation.

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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

Recommended for large fires: foam or water spray. Recommended for small fires: dry chemical or carbon dioxide.

Specific hazards arising from the chemical

Firefighters should wear NIOSH approved self-contained breathing apparatus and full fire-fighting turn out gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

Special protective actions for fire-fighters

If water is used to fight fire, contain runoff, using dikes to prevent contamination of water supplies. Dispose of fire control water later. 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.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

Environmental precautions

Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

Methods and materials for containment and cleaning up

Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.

Pump any free liquid into an appropriate closed container. Collect washings for disposal. Decontaminate tools and equipment following cleanup.

SECTION 7: Handling and storage

Precautions for safe handling

Use only in a well-ventilated area. Wear appropriate safety equipment when handling.

Conditions for safe storage, including any incompatibilities

Store in original container with lid tightly closed. Keep away from food, feed and drinking water. Store above 15° F (-10 C). If crystallized, warm to 80-90 F and redissolve by shaking container before using product.

SECTION 8: Exposure controls/personal protection

Control parameters

1. Glyphosate-isopropylammonium (CAS: 38641-94-0)

Appropriate engineering controls

Proper ventilation is required when handling or using this product to minimize exposure to airborne contaminants. Local mechanical exhaust ventilation may be required. Facilities storing or utilizing this material

should be equipped with an eyewash facility and a safety shower.

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

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Eye/face protection

Safety goggles when mixing, loading or cleaning equipment is recommended.

Skin protection

Long-sleeved shirt and long pants, Shoes plus socks. Waterproof gloves when mixing, loading or cleaning equipment is recommended.

Respiratory protection

When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Clear yellow viscous liquid
Odor	Slight amine like
Odor threshold	None known
pH	4.74
Melting point/freezing point	No information available
Initial boiling point and boiling range	No information available
Flash point	Will not flash
Evaporation rate	No information available
Flammability (solid, gas)	Not flammable
Upper/lower flammability or explosive limits	Not flammable
Vapor pressure	25 mmHg a 24°C
Vapor density	No information available
Relative density	1.15 – 1.21 g/ml (9.60 – 10.10 lb/gl)*
Solubility(ies)	Emulsifies
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	32.77 cSt @ 24°C

Additional properties

Physical state	Liquid
Color	Clear yellow

SECTION 10: Stability and reactivity

Reactivity

May react with metals such as galvanized or mild steel to produce hydrogen gas which could form a highly combustible gas mixture.

Chemical stability

Stable, however may decompose if heated.

Possibility of hazardous reactions

Product will not undergo polymerization.

Conditions to avoid

Avoid temperatures above (115°F, 46°C) and below 25°F (-5°C).

Incompatible materials

Strong oxidizers or bases, mild and galvanized steel.

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Hazardous decomposition products

Carbon monoxide, Nitrogen oxides, phosphorous oxides due to thermal breakdown

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Glyphosate-isopropylammonium

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

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

LC50 Inhalation - Rat - > 2.9mg/L

Eyes - Rabbit - Slight Irritation

Skin corrosion/irritation

May cause skin irritation.

Serious eye damage/irritation

The undiluted product may cause pain, redness and tearing based on toxicity studies.

Respiratory or skin sensitization

Low inhalation toxicity.

Germ cell mutagenicity

No evidence of mutagenic effects during in vivo or in vitro studies.

Carcinogenicity

CARCINOGEN STATUS:

OSHA - Not listed

NTP - Not listed

IARC - Not listed

Reproductive toxicity

Effects on offspring only noted with maternal toxicity

Specific target organ toxicity (STOT) - single exposure

No information available.

Specific target organ toxicity (STOT) - repeated exposure

No information available.

Aspiration hazard

No information available.

SECTION 12: Ecological information

Toxicity

Glyphosate-isopropylammonium

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

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

LC50 Inhalation - Rat - > 2.9mg/L

Eyes - Rabbit - Slight Irritation

ENVIRONMENTAL FATE: (Glyphosate acid)

Bioaccumulation - Whole fish BCF <1

Soil Half-life - 2 - 174 days (adsorbs strongly to soil)

Water Half-life - <7 days

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FISH TOXICITY: (Glyphosate acid)
96 hour LC50, Rainbow trout – 5.4 mg/L
96 hour LC50, Bluegill – 7.3 mg/L
AVIAN TOXICITY: (Glyphosate acid)
Dietary LC50, Bobwhite quail – >5,600 mg/Kg
Dietary LC50, Mallard duck – >5,600 mg/Kg
BEE TOXICITY: (Glyphosate acid)
Contact LD50 - >100 ug/bee

SECTION 13: Disposal considerations

Disposal methods

Product 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.

Packaging disposal

Non-refillable containers: Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Refillable containers: Refill this container with glyphosate only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the re-filler. If the container cannot be refilled, offer for recycling if available or 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.

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 Weed & Grass Killer

Toxic Substances Control Act (TSCA) Inventory

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

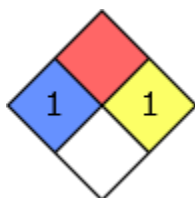
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HMIS Rating

Hi-Yield Super Concentrate Killzall Weed & Grass Killer	
HEALTH	1
FLAMMABILITY	
PHYSICAL HAZARD	1
PERSONAL PROTECTION	

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.