



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Hi-Yield KillZall Aquatic Herbicide

SECTION 1: Identification

GHS Product identifier

Product name	Hi-Yield KillZall Aquatic Herbicide
Product number	33700
Brand	Hi-Yield

Other means of identification

EPA Reg. No. 7401-459

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: (US) OSHA (29 CFR 1910.1200)

- Acute toxicity, inhalation, Cat. 4
- Eye damage/irritation, Cat. 2B
- Hazardous to the aquatic environment - acute hazard, Cat. 2

GHS label elements, including precautionary statements

Pictograms



Signal word

Warning

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Hazard statement(s)

H332 Harmful if inhaled
H320 Causes eye irritation
H401 Toxic to aquatic life

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/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.
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.
P501 Dispose of contents/container according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities.
P102 Keep out of reach of children.
P103 Read label before use.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Isopropylamine salt of glyphosate	53.8 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice Note to Physician: This product has low oral, dermal, and inhalation toxicity. If swallowed, gastric lavage using an endotracheal tube may be preferred to vomiting. May cause temporary eye irritation.

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 Immediately flush skin with water while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Destroy contaminated leather items such as shoes, belts, and watchbands.

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 eyes for at least 10 minutes. Obtain medical attention without delay, preferably from an ophthalmologist

If swallowed Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water then 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

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unconscious person. Have product label with you when calling a poison control center or doctor.

Most important symptoms/effects, acute and delayed

Aside from the information found under description of first aid measures (above) and indication of immediate medical attention and special treatment needed (below), any additional important symptoms and side effects are described in Section 11: Toxicology Information.

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

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the SDS, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Firefighting 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

Special Protective Equipment for Firefighters:

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: >200oF

Lower flammable limit (% by volume): N/Av

Upper flammable limit (% by volume): N/Av

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary and unprotected personnel from entering the area.

Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up

Contain spilled material if possible. Small spills: Absorb in earth, sand or absorbent material and sweep up. Collect in suitable and properly labeled containers. Large spills: Contact Drexel Chemical Co. for clean-up assistance.

Reference to other sections

See Section 13, Disposal Considerations, for additional information.

SECTION 7: Handling and storage

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Precautions for safe handling

General Handling: Avoid contact with eyes, skin, and clothing. When using do not eat, drink, or smoke. Wash thoroughly after handling. Do not swallow. Avoid breathing vapor. Use with adequate ventilation. Wear chemical protective equipment when handling. Keep away from heat, sparks and flame. See Section 8, Exposure Controls and Personal Protection.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well 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. Isopropylamine salt of glyphosate

TLV®: 5mg/m³

Appropriate engineering controls

No special requirement when used as recommended.

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

Eye/face protection

Wear safety glasses with side shields or chemical splash goggles to prevent vapors or mists from entering the eyes. If using a full face shield, always use safety glasses or goggles along with the face shield to ensure adequate protection of the eyes.

Skin protection

If repeated or prolonged contact wear chemical resistant gloves. Applicators and handlers must wear long sleeved shirt, long pants and shoes with socks. 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 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

Appearance (physical state, color, etc.)	Liquid/ Amber
Odor	Slight
Odor threshold	No data available.
pH	4.5 – 5.0
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	> 200 °F
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability or explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.

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Relative density	No data available.
Solubility(ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.

Additional properties

Physical state	Liquid
Color	Amber
Explosive properties	No data available.
Oxidizing properties	No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

Thermally stable at typical use temperatures and in closed containers.

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.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Ingestion:

Oral LD50, (rat): >5,000 mg/kg

Dermal:

Dermal LD50, (rabbit): >5,000 mg/kg

Inhalation:

LC50,(4h), Aerosol, Rat: >2.9 mg/l

Eye Irritation (rabbit):

Non-to-slightly irritating.

Skin Irritation (rabbit):

Non-to-slightly irritating.

Sensitization Skin (Guinea Pig):

Non-sensitizer.

Skin corrosion/irritation

Brief contact is essentially nonirritating to skin.

Serious eye damage/irritation

May cause slight temporary eye irritation. Corneal injury is unlikely.

Respiratory or skin sensitization

Did not cause allergic skin reactions when tested in guinea pigs.

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Germ cell mutagenicity

No information available

Carcinogenicity

This product does not contain any materials which are classified as carcinogenic by OSHA, IARC, ACGIH, or NTP.

Reproductive toxicity

No information available

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

Additional information

Teratogenicity, mutagenicity, and other reproductive effects: None known.

SECTION 12: Ecological information

Toxicity

Aquatic Toxicity:

- Rainbow Trout: 96 hour LC50: 5.4 mg/L
- Bluegill 96 hour LC50: 7.3 mg/L
- Daphnia magna: 48 hour EC50: 11 mg/L

Bird Toxicity:

- Mallard Duck 5-day dietary LC50: >5620 mg/kg
- Bobwhite quail 5-day dietary LC50: >5620 mg/kg

Anthropod Toxicity:

- Honey bee, oral/contact 48 hrs. LD50: 100µg/bee.

Soil Organism Toxicity:

- Earthworm acute toxicity, 14 days, LC50: >1200 mg/kg soil

Persistence and degradability

Soil field half-life 2-174 days. Adsorbs strongly to soil.

Water aerobic half-life < 7 days.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

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

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IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

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

EPA

EPA FIFRA INFORMATION

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemical. The hazard information required on the pesticide label is listed out below. The pesticide label also includes other important information, including directions for use.

EPA/CERCLA Reportable Quantity: NA

SARA 302 Components

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

SARA 311/312 Hazards

Immediate

SARA 313 Components

None

Toxic Substances Control Act (TSCA) Inventory

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

California Prop. 65 Components

This product is not listed.

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.