



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Hi-Yield KILLZALL Quick Weed and Grass Killer

SECTION 1: Identification

GHS Product identifier

Product name Hi-Yield KILLZALL Quick Weed and Grass Killer RTU
Product number 32168; 32168Q; 32169; 34169
Brand Hi-Yield

Other means of identification

EPA Reg. No. 19713-642-7401

Recommended use of the chemical and restrictions on use

Pesticide.

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

General hazard statement

Harmful if inhaled.
Causes serious eye damage.
Causes severe skin burns and eye damage.
Toxic to aquatic life.

Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200, 2012)

- Acute toxicity, inhalation, Cat. 4
- Eye damage/irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1B

GHS label elements, including precautionary statements

Pictograms

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Hazard statement(s)

H332 Harmful if inhaled
H318 Causes serious eye damage
H314 Causes severe skin burns and eye damage
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 person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor/.../ if you feel unwell.
P280 Wear eye protection/face protection/protective gloves/protective clothing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor/...
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash ... thoroughly after handling.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 Wash contaminated clothing before reuse.
P321 Specific treatment (see ... on this label).
P405 Store locked up.
P501 Dispose of contents/container to ...
P102 Keep out of reach of children.
P103 Read label before use.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
N-(phosphonomethyl)glycine, monoisopropylamine salt solution (CAS no.: 38641-94-0)	2 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Pelargonic acid, ammonium salt (CAS no.: 63718-65-0)	2 %
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 contact 1-800-424-9300 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

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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 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Immediately call a doctor or poison control center.
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 unconscious person. Have product label with you when calling a poison control center or doctor.

Most important symptoms/effects, acute and delayed

No information available.

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

Note to Physician: No specific antidote. Treatment of exposure should be directed at control of symptoms and the clinical condition of the patient.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Water spray, fog, dry foam, dry chemical or carbon dioxide (CO₂).

Specific hazards arising from the chemical

Thermal decomposition during a fire can produce fumes and irritating gases. Hazardous Combustion Products: Hydrogen chloride, oxides of carbon, nitrogen and phosphorus.

Special protective actions for fire-fighters

Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear. Evacuate the area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Dike and collect fire-extinguishing water to prevent environmental damage with excessive water runoff.

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. Spilled material may cause a slipping hazard. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

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Environmental precautions

This product is toxic to plants. Drift and run-off may be hazardous to plants in water adjacent to treated areas.

Methods and materials for containment and cleaning up

Clean up spills immediately, observing precautions in Section 8 of this SDS. Isolate hazard area. Keep unnecessary

personnel from entering.

Small Spills: Contain small spill by diking with a suitable absorbent material such as earth, sand or clay. Sweep up absorbed spill and place material in appropriate recovery drums for disposal.

Large Spills: Contain large spills by diking with a suitable absorbent material such as earth, sand or clay and recover for disposal. After removal, decontaminate tools and equipment. Wash the spill area, tools, and equipment with strong soap and water solution. Absorb any excess liquid and add to the recovery drums of waste already collected. Dispose all wastes as described in Section 13. Large spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

Reference to other sections

Section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Do not get in eyes or on clothing. Avoid contact with skin. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Keep out of reach of children.

Conditions for safe storage, including any incompatibilities

Store product in original container in a safe place and protect from freezing. Do not contaminate water, food, or feed

by storage or disposal.

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

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

Wear protective eyewear (goggles, safety glasses, face shield)

Skin protection

Long-sleeved shirt, long pants, shoes, socks and chemical resistant gloves.

Body protection

General: Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Respiratory protection

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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.)	Clear liquid
Odor	Slightly Fatty
Odor threshold	None known
pH	4-5.5
Melting point/freezing point	No information available.
Initial boiling point and boiling range	>212°F
Flash point	No information available.
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	8.91 lbs./gal.
Solubility(ies)	Soluble
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity	No information available.
Additional properties	
Physical state	Liquid
Color	Clear
Explosive properties	Non-explosive

SECTION 10: Stability and reactivity

Reactivity

HAZARDOUS POLYMERIZATION: Will not occur.

Chemical stability

Stable under all normal use and storage conditions.

Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

Conditions to avoid

Avoid excessive heat and fire.

Incompatible materials

Strong oxidizing agents, acids and bases. Reducing agents.

Hazardous decomposition products

Hydrogen chloride, oxides of carbon, nitrogen, and phosphorus.

SECTION 11: Toxicological information

Information on toxicological effects

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Acute toxicity

Acute toxicity

Ingestion:

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

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

Dermal:

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

Pelargonic acid: Dermal, LD50, (rabbit): 2,000 mg/kg

Inhalation

Glyphosate IPA salt: LC50, (4h), Aerosol, (rat): >2.9 mg/l

Pelargonic acid: LC50, 4h, (rat): >5.29 mg/l

Skin corrosion/irritation

Skin Irritation (rabbit):

Glyphosate IPA salt: Non-irritating

Pelargonic acid: Causes skin irritation

Serious eye damage/irritation

Eye Irritation (rabbit):

Glyphosate IPA salt: Slightly irritating

Pelargonic acid: May cause severe eye irritation and corneal injury

Respiratory or skin sensitization

Sensitization Skin (Guinea Pig):

Glyphosate IPA salt: Non-sensitizer

Pelargonic acid: Non-sensitizer

Germ cell mutagenicity

No evidence of mutagenic effects during in vivo and in vitro assays.

Carcinogenicity

EPA: Not Listed ACGIH: Not Listed IARC: Group 2A1 NTP: Not Listed OSHA: Not Listed

1 Carcinogenicity: Not carcinogenic in rats or mice. Listed as Category 2A by the International Agency for Research on Cancer (IARC) but, in the expert opinion of the Joint Glyphosate Task Force, this classification as a carcinogen is not warranted.

Reproductive toxicity

Not known to cause reproductive or birth defects at normal exposure levels.

Specific target organ toxicity (STOT) - single exposure

None known

Specific target organ toxicity (STOT) - repeated exposure

None known

Aspiration hazard

None known

SECTION 12: Ecological information

Toxicity

This product is toxic to plants. Drift and run-off may be hazardous to plants in water adjacent to treated areas.

The following information is for the active ingredient, Glyphosate acid and Pelargonic acid

Persistence and Degradability:

Glyphosate:

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

o Water aerobic half-life < 7 days.

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Pelargonic acid:

o Not expected to have adverse effects on non-target organisms or the environment. The chemical decomposes rapidly in both land and water environments, does not accumulate

Aquatic Toxicity:

Glyphosate:

o Rainbow Trout, 96 hour, LC50: 5.4 mg/L

o Bluegill, 96 hour, LC50: 7.3 mg/L

o Daphnia magna, 48 hour, EC50: 11 mg/L

Pelargonic acid:

o Rainbow Trout, 96 hour, LC50: 61-110 mg/L

o Daphnia magna, 48 hour, EC50: 58-108 mg/L

Bird Toxicity:

Glyphosate:

o Mallard duck, 5-day, dietary, LC50: >5620 mg/kg

o Bobwhite quail, 5-day, dietary, LC50: >5620 mg/kg

Arthropod Toxicity:

Glyphosate:

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

Soil Organism Toxicity:

Glyphosate:

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

Persistence and degradability

Glyphosate:

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

o Water aerobic half-life < 7 days.

Pelargonic acid:

o Not expected to have adverse effects on non-target organisms or the environment. The chemical decomposes

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Do not contaminate water, food or feed by disposal.

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Packaging disposal

Nonrefillable container, do not reuse or refill this container. Refer to product label for specific container disposal instructions.

SECTION 14: Transport information

DOT (US)

Not regulated by DOT.

IMDG

IMO - UN3082 Environmentally Hazardous Substance, Liquid, N.O.S. (contains Glyphosate, Pelargonic acid), 9, PG

III, Marine Pollutant

IATA

UN3082 Environmentally Hazardous Substance, Liquid, N.O.S. (contains Glyphosate, Pelargonic acid), 9, PG III

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SECTION 15: Regulatory information

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

US EPA TSCA public inventory

Chemical name: Nonanoic acid, ammonium salt (1:1)

CAS number: 63718-65-0

Labeling requirements under FIFRA

Product name: Hi-Yield KILLZALL Quick Weed and Grass Killer

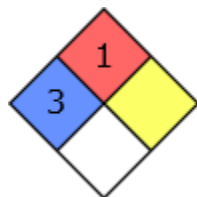
SARA 311/312 Hazards

Product name: Hi-Yield KILLZALL Quick Weed and Grass Killer

HMIS Rating

Hi-Yield KILLZALL Quick Weed and Grass Killer	
HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	
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.