



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Hi-Yield KILLZALL 365

SECTION 1: Identification

GHS Product identifier

Product name Hi-Yield KILLZALL 365
Product number 32170; 32171
Brand Hi-Yield

Other means of identification

EPA Reg. No. 81927-58-7401

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, 2012)

GHS label elements, including precautionary statements

Pictograms



Signal word

Danger

Hazard statement(s)

H318 Causes serious eye damage
H401 Toxic to aquatic life

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Precautionary statement(s)

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)	40 - 50 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Imazapyr, isopropylamine salt (CAS no.: 81510-83-0)	1 %
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	Remove person to fresh air and keep comfortable for breathing. Call a doctor or poison control center if you feel unwell.
In case of skin contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. If skin irritation or rash occurs: Get medical attention/advice.
In case of eye contact	Rinse cautiously with water for 15-20 minutes. Remove contact lenses, if present and easy to do after the first 5 minutes, then continue rinsing eye. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If swallowed	Immediately call a doctor or poison control center. Do not give any liquid to the person. 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.

Most important symptoms/effects, acute and delayed

No information available

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

No information available

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

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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.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

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.

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.

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.

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)

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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

Wear mask if needed.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Clear, yellow liquids
Odor	Slight odor
Odor threshold	None known
pH	4-5.5
Melting point/freezing point	No information available.
Initial boiling point and boiling range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	Not flammable
Upper/lower flammability or explosive limits	No information available.
Vapor pressure	No information available.
Vapor density	No information available.
Relative density	9.76 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	Yellow

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

No information available.

Conditions to avoid

Avoid excessive heat and fire.

Incompatible materials

Strong oxidizing agents, acids and bases.

Hazardous decomposition products

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

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SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

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

Skin corrosion/irritation

Guinea Pigs - Not a contact sensitizer Rabbit – Slightly irritating

Serious eye damage/irritation

Rabbit – Moderately irritating with corneal involvement persisting for 21 days (rat LD50): > 5,000 mg/kg

Respiratory or skin sensitization

INHALATION TOXICITY (rat LC50): > 2.06 mg/L (4-hour)

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

No information available

Specific target organ toxicity (STOT) - repeated exposure

No information available

Aspiration hazard

No information available

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:

AQUATIC TOXICITY

Rainbow Trout (96-hr LC50): 786 mg/L Bluegill (96-hr LC50): 120 mg/L Diatoms (96-hr EC50): 1.3 mg/L

Duckweed (14-day EC50): 25.5 mg/L AVIAN TOXICITY

Mallard Duck (Oral LD50): > 4,500 mg/kg Bobwhite Quail (Oral 8-day): > 4,500 mg/kg

The following information is for the active ingredient, Imazapyr:

AQUATIC TOXICITY

Rainbow Trout (96-hr LC50): > 100 mg/L Bluegill (96-hr LC50): > 100 g/L Diatoms (96-hr EC50): 1.3 mg/L

AVIAN TOXICITY

Mallard Duck (Oral LD50): > 2,150 mg/kg Bobwhite Quail (Oral 8-day): > 2,150 mg/kg

Green Algae (7-day EC50): 71 mg/L

SECTION 13: Disposal considerations

Disposal methods

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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

IMDG

IMO - UN3082 Environmentally Hazardous Substance, Liquid, N.O.S. (contains Glyphosate, Imazapyr), 9, PG III, Marine Pollutant

IATA

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

SECTION 15: Regulatory information

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

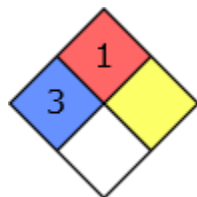
SARA 311/312 Hazards

Product name: Hi-Yield KILLZALL 365

HMIS Rating

Hi-Yield KILLZALL 365	
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

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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.