



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Hi-Yield Killzall Extended Control

SECTION 1: Identification

GHS Product identifier

Product name Hi-Yield Killzall Extended Control
Product number 33697; 33698; 33698Q
Brand Hi-Yield

Other means of identification

EPA Reg. No. 228-509-7401

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

General hazard statement

Causes eye irritation. May cause cancer. Toxic to aquatic life with long lasting effects.

Classification of the substance or mixture

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

- Eye damage/irritation, Cat. 2B

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
H402 Harmful to aquatic life

Precautionary statement(s)

P264 Wash ... 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.
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 - 41.3 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
1,3-Benzenediamine, 2,6-dinitro-n1,n1-dipropyl-4-(trifluoromethyl)- (CAS no.: 29091-21-2)	7.1 - 7.9 %
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. For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm Pacific Time or your poison control center at 1-800-222-1222.

If inhaled Move person to fresh air. If breathing is difficult, administer oxygen. If symptoms develop, get medical advice.

In case of skin contact Take off contaminated clothing. Rinse skin with plenty of water for several minutes. If irritation occurs, get medical advice.

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. Immediately call a doctor or poison control center.

If swallowed 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. If symptoms develop, get medical advice.

Most important symptoms/effects, acute and delayed

Causes eye irritation. May be harmful if swallowed.

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

Immediate medical attention should not be required.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Water spray, fog, dry foam, or CO₂

Specific hazards arising from the chemical

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.

Further information

Flash Point (PM): > 93.3°C (200°F)

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. See Section 13: DISPOSAL CONSIDERATIONS for more information.

Reference to other sections

Section 8.

Section 13.

SECTION 7: Handling and storage

Precautions for safe handling

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.

Solutions of this product should be mixed or stored only in stainless steel, aluminum, fiberglass, plastic and plastic lined containers. DO NOT MIX OR STORE THIS PRODUCT OR SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL

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OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR TANKS. This product or solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

Conditions for safe storage, including any incompatibilities

STORE ABOVE 10° F (-12° C) TO KEEP PRODUCT FROM CRYSTALLIZING. Crystals will settle to the bottom. If allowed to crystallize, place in a warm room 68° F (20° C) for several days to redissolve and shake or roll to mix well before using. 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

To avoid contact with eyes, wear chemical goggles or shielded safety glasses. 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, shoes and chemical-resistant gloves. An emergency shower or water supply should be readily accessible to the work area.

Body protection

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored; 2) wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

Respiratory protection

Not normally required. If vapors or mists exceed acceptable levels, wear NIOSH approved airpurifying respirator with cartridges/canisters approved for use against pesticides.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Yellow liquid
Odor	Faint
Odor threshold	None known
pH	4.8 (1% dispersion in DIW)
Melting point/freezing point	No information available.
Initial boiling point and boiling range	No information available.
Flash point	> 93.3°C (200°F)
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.

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Relative density	1.196 g/mL @ 20° C
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

This product reacts with aluminum, 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.

Chemical stability

This material is stable under normal handling and storage conditions.

Possibility of hazardous reactions

Hazardous polymerization will not occur. This product may react with aluminum, galvanized steel, or unlined steel containers to form hydrogen gas which is highly combustible.

Conditions to avoid

Excessive heat. Do not store near heat or flame. Do not store in aluminum, galvanized steel, or unlined steel containers.

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

Under fire conditions, may produce gases such as oxides of carbon, nitrogen and phosphorous.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

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

Dermal: Rat LD50: >5,000 mg/kg

Inhalation: Rat 4-hr LC50: >2.06 mg/l (no mortalities at highest dose tested)

Eye Irritation: Rabbit: Mildly irritating (MMTS=19.7)

Skin Irritation: Rabbit: Slightly irritating (PDII= 1.2)

Skin Sensitization: Not a contact sensitizer in guinea pigs following repeated skin exposure.

Skin corrosion/irritation

Slightly toxic and non-irritating based on toxicity studies.

Serious eye damage/irritation

Slightly irritating based on toxicity studies.

Respiratory or skin sensitization

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Low inhalation toxicity.

Germ cell mutagenicity

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

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. In animal studies with prodiamine, benign thyroid tumors were seen in rats, but none were observed in mice.

Reproductive toxicity

In laboratory animal studies with glyphosate and prodiamine, effects on reproduction have been seen only at doses that produced toxicity to the parent animals. For prodiamine these effects were seen at high doses.

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. Repeated overexposure to prodiamine may decrease body weight gains and affect the liver and thyroid. The surfactant component of this product is reported to cause irritation to the eyes and skin and may contribute to the irritation potential reported for this product. Ingestion may produce gastrointestinal irritation, nausea, vomiting and diarrhea.

Aspiration hazard

No information available.

SECTION 12: Ecological information

Toxicity

Data on Glyphosate Technical:
96-hour LC50 Bluegill: 120 mg/l
Bobwhite Quail 8-day Dietary LD50: >4,500 ppm
96-hour LC50 Rainbow Trout: 786 mg/l
Mallard Duck 8-day Dietary LC50: >4,500 ppm
48-hour EC50 Daphnia: 780 mg/l
Data on Prodiamine
96-hour LC50 Bluegill Sunfish: 0.55 ppm
Bobwhite Quail 8-day Dietary LC50: >10,000 ppm
96-hour LC50 Rainbow Trout: 0.83 ppm
Mallard Duck 8-day Dietary LC50: >10,000 ppm
48-hour LC50 Daphnia magna: 0.66 ppm
Bees LC50/EC50: >100 µg/bee

Bioaccumulative potential

Prodiamine does not bioaccumulate. Prodiamine is persistent in soil (immobile) and has an average half-life of approximately 120 days. Prodiamine is stable in water (sinks in water after 24 hours).

Other adverse effects

In the environment glyphosate adsorbs strongly to soil and is expected to be immobile in soil. Glyphosate is readily

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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. Aquatic applications registered for certain formulations may also result in glyphosate entering surface waters. Complete degradation is slow, but dissipation in water is rapid because glyphosate is bound in sediments and has low biological availability to aquatic organisms. These characteristics suggest a low potential for bioconcentration in aquatic organisms and this has been verified by laboratory investigations of glyphosate bioconcentration in numerous marine and freshwater organisms with and without soil. The maximum whole body bioconcentration factors for fish were observed to be less than 1X. Bioconcentration factors for sediment dwelling mollusks and crayfish tended to be slightly higher, but were always less than 10X. In addition, any residues accumulated in organisms were rapidly eliminated.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Pesticide wastes may be acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by 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 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. Do not burn unless allowed by state and local ordinance. If burned stay out of smoke.

Nonrefillable containers larger than 5 Gallons:

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. If recycling or reconditioning is not available, 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. Do not burn unless allowed

by state and local ordinance. If burned stay out of smoke. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one

complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or

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a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.
Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable containers
CONTAINER HANDLING [DISPOSAL]: Refillable container. Refill this container with pesticide 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 refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

RESIDENTIAL Container Handling and Disposal:
Nonrefillable container. Do not reuse or refill this container.
If empty: Place in trash or offer for recycling if available.
If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor (including toilet) or outdoor (including sewer) drain.

Waste treatment

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. Emptied container retains vapors and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

SECTION 14: Transport information

DOT (US)

< 119 gallons per completed package:

Non Regulated

≥ 119 gallons per completed package:

UN 3082, Environmentally hazardous substance, liquid, n.o.s., (Prodiamine), 9, III, Marine pollutant

IMDG

UN 3082, Environmentally hazardous substance, liquid, n.o.s., (Prodiamine), 9, III, Marine pollutant

IATA

Non Regulated

SECTION 15: Regulatory information

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

US EPA TSCA public inventory

Chemical name: 1,3-Benzenediamine, 2,6-dinitro-n1,n1-dipropyl-4-(trifluoromethyl)-

CAS number: 29091-21-2

Labeling requirements under FIFRA

Product name: Hi-Yield Killzall Extended Control

SARA 311/312 Hazards

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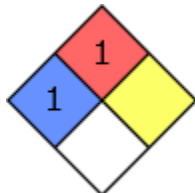
Hi-Yield Killzall Extended Control

Product name: Hi-Yield Killzall Extended Control

California Proposition 65 List

Product name: Hi-Yield Killzall Extended Control

NFPA Rating



SECTION 16: Other information

Further information/disclaimer

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