



## VOLUNTARY PURCHASING GROUPS, INC.

### Safety Data Sheet Hi-Yield® Range and Pasture Dicamba +D

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#### SECTION 1: Identification

##### Product identifier

Product name Hi-Yield® Range and Pasture Dicamba +D

##### Other means of identification

EPA# 81927-42-7401

##### Supplier's details

Name Voluntary Purchasing Groups, Inc.  
Address 230 FM 87  
Bonham, TX 75418  
USA

Telephone 855-270-4776

##### Emergency phone number(s)

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

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#### SECTION 2: Hazard identification

##### Classification of the substance or mixture

##### GHS label elements, including precautionary statements

##### Pictogram



##### Signal word

**Danger**

##### Hazard statement(s)

H318 Causes serious eye damage  
H302 Harmful if swallowed  
H332 Harmful if inhaled  
H401 Toxic to aquatic life

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### SECTION 3: Composition/information on ingredients

#### Substances

#### Hazardous components

Component	Concentration
DMA 4 (DOW) 49 PERCENT 2,4- D, DIMETHYLAMINE SALT (CAS no.: 2008-39-1)	30 - 40 %
Diamba DMA (CAS no.: 2003-66-5)	10 - 20 %

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### 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.
If inhaled	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor if you feel unwell.
In case of skin contact	Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
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. 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.

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

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

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### SECTION 5: Fire-fighting measures

#### Suitable extinguishing media

Water fog, foam, dry chemical or CO2

#### Specific hazards arising from the chemical

Not a fire or explosion hazard.

Thermal decomposition may produce toxic gasses such as hydrogen chloride and oxides of carbon and nitrogen.

#### Special protective actions for fire-fighters

Evacuate nonessential personnel to prevent exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area and equipment until decontaminated. Dike and collect any runoff to prevent entry to drains or water bodies.

Firefighting Equipment: Self-contained breathing apparatus and full bunker gear.

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### SECTION 6: Accidental release measures

#### Methods and materials for containment and cleaning up

Clean up spills immediately observing the precautions in Section 8 of this SDS. Control spill at the source and prevent material from entering soil, sewers, waterways or low areas. If necessary, dike spill using absorbent or impervious materials such as clay or sand. Recover materials for reuse or disposal by pumping any free liquid into appropriate closed containers, do not flush to drain.

Large spills to soil may require removal of topsoil with the affected area removed and placed into appropriate containers for disposal. Large spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

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### SECTION 7: Handling and storage

#### Precautions for safe handling

Keep out of reach of children. Do not get in eyes or on clothing, avoid contact with skin and avoid inhaling vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

#### Conditions for safe storage, including any incompatibilities

Always store pesticides in a secured warehouse or storage building. Do not store below temperature of 32°F or above 100°F. Store in original container in a well-ventilated area separately from fertilizer, feed, and foodstuffs. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength.

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### SECTION 8: Exposure controls/personal protection

#### Appropriate engineering controls

Handle only with adequate ventilation. Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

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

##### Eye/face protection

Face shield or goggles

##### Skin protection

Chemical-resistant gloves

##### Body protection

Wear long sleeved shirt, long pants, shoes, and socks. When mixing, loading or cleaning up spills or equipment or otherwise exposed to concentrate, wear a chemical-resistant apron.

Wash clothing and other absorbent materials that have been exposed to this product. Follow the manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

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### SECTION 9: Physical and chemical properties

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### Information on basic physical and chemical properties

Appearance/form	Amber liquid
Odor	Mild amine
pH	8.3 – 8.7
Flash point	Aqueous solution
Solubility(ies)	Soluble
Viscosity	9.507 cps @ 25°C

### Other safety information

Density: 9.69 lbs/gal

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## SECTION 10: Stability and reactivity

### Chemical stability

Stable under normal use and storage conditions.

### Possibility of hazardous reactions

POLYMERIZATION: Will not occur.

### Conditions to avoid

Excessive heat. Do not store near heat or flame.

### Incompatible materials

Strong oxidizing agents, bases and acids.

### Hazardous decomposition products

May release toxic gasses when thermally decomposed.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

ORAL TOXICITY (rat LD50): 1,256 mg/kg  
DERMAL TOXICITY (rat LD50): > 5,000 mg/kg  
INHALATION TOXICITY (rat LC50): > 2.07 mg/L (4-hour)

#### Skin corrosion/irritation

Rabbit – Slightly irritating

#### Serious eye damage/irritation

Rabbit – Severely irritating

#### Respiratory or skin sensitization

Not a contact sensitizer

#### Germ cell mutagenicity

Little evidence of mutagenic effects during in vivo or in vitro studies.

#### Carcinogenicity

EPA: Not Listed  
ACGIH: Not Listed

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NTP: Not Listed  
IARC: Class 2B (chlorophenoxy herbicides)  
OSHA: Not Listed

### Reproductive toxicity

No evidence in animal studies.

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## SECTION 12: Ecological information

### Toxicity

This product is toxic to fish and aquatic invertebrates.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of federal law.

### Other adverse effects

The following information is for the active ingredient, 2,4-D DMA:

#### AQUATIC TOXICITY

Bluegill (96-hr LC50): 524 mg/L

Rainbow Trout (96-hr LC50): 250 mg/L

Daphnia (48-hr EC50): 184 mg/L

#### AVIAN TOXICITY

Bobwhite Quail (Oral LD50): > 500 mg/kg

Mallard Duck (8-day Dietary LC50): > 5,620 ppm

The following information is for the active ingredient, Dicamba:

#### AQUATIC TOXICITY

Bluegill (96-hr LC50): 135 mg/L

Rainbow Trout (96-hr LC50): 135 mg/L

Daphnia (48-hr EC50): 110 mg/L

#### AVIAN TOXICITY

Bobwhite Quail (8-day Dietary LC50): > 10,000 ppm

Mallard Duck (8-day Dietary LC50): > 10,000 ppm

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## SECTION 13: Disposal considerations

### Disposal of the product

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 and may contaminate groundwater. 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.

### Disposal of contaminated packaging

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

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### Other disposal recommendations

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.

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## SECTION 14: Transport information

### DOT (US)

Containers < 30 gallons

Not regulated by DOT.

Containers > 30 gallons Net Content:

DOT Shipping Name: UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Contains 2,4-D DMA, Dicamba), 9, PG III

DOT Emergency Response Guide: 171

Marine Pollutant: No

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## SECTION 15: Regulatory information

### Chemical Safety Assessment

FIFRA –

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

#### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER.** Corrosive. Causes irreversible eye damage. Do not get in eyes or on clothing. Wear goggles. Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

See inside label booklet for additional Precautionary Statements and Directions for Use including Storage and Disposal instructions.

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift or runoff may be hazardous to aquatic organisms in water adjacent to treated areas, and nontarget plants. Do not contaminate water when disposing of equipment washwaters or rinsate.

#### Groundwater Contamination

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

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### Endangered Species Concerns

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of federal law.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

SARA Title III – Section 311/312 Hazard Categories

Immediate, Delayed

SARA Title III – Section 312 Threshold Planning Quantity

N/A

SARA Title III – Section 313 Reportable Ingredients

2,4-D Acid (CAS #94-75-7): 36.0%

Dicamba (CAS #1918-00-9): 12.5%

CERCLA –

2,4-D Acid (CAS #94-75-7): RQ 100 lbs. (35 gallons of product)

Dicamba (CAS #1918-00-9): RQ 1,000 lbs. (1,000 gallons of product)

CALIFORNIA PROP 65 STATUS –

This product does not contain any chemical known to the state of California to cause cancer or reproductive toxicity.

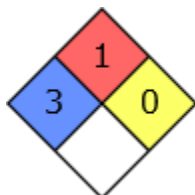
CANADA –

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### HMIS Rating

Hi-Yield® Range and Pasture Dicamba +D	
HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

### NFPA Rating



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### **SECTION 16: Other information**

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

#### **Further information/disclaimer**

Voluntary Purchasing Groups, Inc. urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.