



**VOLUNTARY PURCHASING GROUPS, INC.**

## **Safety Data Sheet Hi-Yield 2,4-D Amine A Selective Weed Killer**

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### **SECTION 1: Identification**

#### **GHS Product identifier**

Product name	Hi-Yield 2,4-D Amine A Selective Weed Killer
Product number	33254
Brand	Hi-Yield

#### **Other means of identification**

EPA Reg. No. 81927-38-7401

#### **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

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### **SECTION 2: Hazard identification**

#### **General hazard statement**

- Harmful if swallowed
- Causes serious eye damage
- Toxic to aquatic life with long lasting effects
- Flammable liquid and vapor

#### **Classification of the substance or mixture**

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

- Acute toxicity, oral, Cat. 4
- Eye damage/irritation, Cat. 1
- Flammable liquids, Cat. 3

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

#### **Pictograms**

**Safety Data Sheet**  
**Hi-Yield 2,4-D Amine A Selective Weed Killer**



**Signal word**

**Danger**

**Hazard statement(s)**

H302  
H318  
H226

Harmful if swallowed  
Causes serious eye damage  
Flammable liquid and vapor

**Precautionary statement(s)**

P264  
P270  
P280  
P301+P312  
P305+P351+P338

Wash ... thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear eye protection/face protection/protective gloves.  
**IF SWALLOWED:** Call a POISON CENTER /doctor/...if you feel unwell,  
**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER/doctor/...  
Rinse mouth.  
Dispose of contents/container to ...  
Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/.../ equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
**IF ON SKIN (or hair):** Take off immediately all contaminated clothing.  
Rinse skin with water/shower.  
In case of fire: Use ... to extinguish.  
Store in a well-ventilated place. Keep cool.

P310  
P330  
P501  
P210  
P233  
P240  
P241  
P242  
P243  
P303+P361+P353  
  
P370+P378  
P403+P235

**Other hazards which do not result in classification**

Have the product label with you when calling a poison control center or doctor or going in for treatment. You may also contact 1-877-800-5556 for emergency medical treatment advice. The low flash point of this product is due to a minor component in the mixture. Based on independent laboratory testing of similar products, this product would not sustain combustion as specified in DOT Regulation 49 CFR 173 Appendix H; however OSHA HCS 2012 flammable classifications are solely based on tested mixture flash points and boiling points.

**SECTION 3: Composition/information on ingredients**

**Mixtures**

**Hazardous components**

Component	Concentration
<b>Dma 4 (dow) 49 percent 2,4- d, dimethylamine salt (CAS no.: 2008-39-1)</b>	<b>47.2 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Trade secret</b>	<b>10 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

**SECTION 4: First-aid measures**

**Description of necessary first-aid measures**

General advice

Show this safety data sheet to the doctor in attendance. If symptoms persist, call physician.

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If inhaled	Remove to fresh air. Get medical attention immediately if symptoms occur.
In case of skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician.
If swallowed	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
Personal protective equipment for first-aid responders	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

#### Most important symptoms/effects, acute and delayed

No information available

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

Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.

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## SECTION 5: Fire-fighting measures

#### Suitable extinguishing media

Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam.

#### Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### Special protective actions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### Further information

Sensitivity to mechanical impact: None.

Sensitivity to static discharge: None.

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## SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage. Dispose of contents/container to an approved waste disposal plant.

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

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Methods for containment: Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.  
Methods for cleaning up: Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

### Reference to other sections

Refer to protective measures listed in Sections 7 and 8.  
See Section 12 for additional ecological information.

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## SECTION 7: Handling and storage

### Precautions for safe handling

Use personal protection equipment. Avoid breathing vapors or mists. Use with local exhaust ventilation. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink, or smoke when using this product. Take off contaminated clothing and wash before reuse.

### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children. Keep from freezing.

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## SECTION 8: Exposure controls/personal protection

### Control parameters

#### 1. Dma 4 (dow) 49 percent 2,4- d, dimethylamine salt (CAS: 2008-39-1)

TWA (Inhalation): 10 mg/m<sup>3</sup> (ACGIH)

TWA: 10 mg/m<sup>3</sup> (US/OSHA)

IDLH: 10 mg/m<sup>3</sup> (NIOSH)

TWA: 10 mg/m<sup>3</sup> (NIOSH)

#### 2. Trade secret

STEL: 15 ppm (ACGIH)

TWA: 5 ppm (ACGIH)

TWA: 10 ppm (US/OSHA)

TWA: 18 mg/m<sup>3</sup> (US/OSHA)

IDLH: 500 ppm (NIOSH)

TWA: 10 ppm (NIOSH)

TWA: 18 mg/m<sup>3</sup> (NIOSH)

### Appropriate engineering controls

Showers  
Eyewash stations  
Ventilation systems.

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

#### Eye/face protection

Tight sealing safety goggles.

#### Skin protection

Wear long-sleeved shirt, long pants, socks and shoes.

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### Body protection

Wear long-sleeved shirt, long pants, socks and shoes. Chemical resistant gloves. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

### Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

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## SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Liquid
Odor	Amines
Odor threshold	No information available.
pH	7.5-8.5
Melting point/freezing point	<35 °F
Initial boiling point and boiling range	101 °C / 214 °F
Flash point	52 °C / 126 °F
Evaporation rate	< 1
Flammability (solid, gas)	None known
Upper/lower flammability or explosive limits	None known
Vapor pressure	<17 mm Hg
Vapor density	>1
Relative density	9.62 pounds/gallon
Solubility(ies)	Soluble in water
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	None known
Decomposition temperature	None known
Viscosity	None known

### Additional properties

Physical state	Liquid
Color	Brown

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## SECTION 10: Stability and reactivity

### Reactivity

No information available

### Chemical stability

Stable

### Possibility of hazardous reactions

None under normal processing.

### Conditions to avoid

Keep out of reach of children.

### Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

### Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

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### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

DMA 4 (DOW) 49 PERCENT 2,4- D, DIMETHYLAMINE SALT

LD50 Oral - Rat - 625 mg/kg

LD50 Skin - Rabbit - 2115 mg/kg

LC50 Inhalation - Rat - >3.5 mg/L (4-hour)

IARC carcinogen

Result: Group 2B

Trade Secret

LD50 Oral - Rat - 698 mg/kg

LD50 Skin - Rat - 3900 mg/kg

LC50 Inhalation - Rat - 4540 ppm (6-hour)

##### Skin corrosion/irritation

May cause irritation.

##### Serious eye damage/irritation

Causes serious eye damage

##### Respiratory or skin sensitization

Specific test data for the substance or mixture is not available

##### Germ cell mutagenicity

No information available.

##### Carcinogenicity

The International Agency for Research on Cancer (IARC) lists chlorophenoxy herbicides inits Group 2B (limited evidence for Carcinogenicity in humans.) The US EPA has given the chlorophenoxy Herbicides 2,4-D, 2,4-DP, MCP, and MCPA a Class D classification (not classifiable as to human carcinogenicity.) More current 2,4-D lifetime feeding studies in rats and mice did not show carcinogenic effects and a recent World Health Organization (WHO) review of 2,4-D toxicology has concluded that 2,4-D is not a carcinogen.

##### Reproductive toxicity

No information available.

##### Summary of evaluation of the CMR properties

46 % of the mixture consists of ingredient(s) of unknown toxicity

LD50 Oral 1120 mg/kg (rat)

LD50 Dermal > 2000 mg/kg (rabbit)

##### 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

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### SECTION 12: Ecological information

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### Toxicity

#### 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

### Persistence and degradability

No information available.

### Bioaccumulative potential

No information available.

### Other adverse effects

This pesticide may be toxic to fish and aquatic invertebrates and may adversely affect non-target plants. 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.

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## SECTION 13: Disposal considerations

### Disposal methods

#### Product disposal

Pesticide wastes are toxic. If container is damaged or if pesticide has leaked, contain all spillage. Absorb and clean up all spilled material with granules or sand. Place in a closed, labeled container for proper disposal. Improper disposal of excess pesticide, spray mixtures, or rinsate is a violation of Federal law and may contaminate ground water. 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 container. Do not reuse or refill this container. Refer to the product label for specific container handling instructions.

#### Waste treatment

Pesticide wastes are toxic. If container is damaged or if pesticide has leaked, contain all spillage. Absorb and clean up all spilled material with granules or sand. Place in a closed, labeled container for proper disposal. Improper disposal of excess pesticide, spray mixtures, or rinsate is a violation of Federal law and may contaminate ground water. 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. US EPA Waste Number D001.

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## SECTION 14: Transport information

### DOT (US)

UN/ID no. UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Hazard class 9

Packing group III

Reportable Quantity (RQ) 2,4-D, dimethylamine salt: RQ (lb)= 215.00= 22 gallons

Special Provisions 8, 146, 173, 335, IB3, T4, TP1, TP29

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D, dimethylamine salt), 9, III, Marine pollutant

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### IMDG

Limited quantity applies with an inner packaging less than 5 L or gross packageweight less than 30 kg. UN number UN3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Transport hazard class(es) 9

Packing group III

EmS-No. F-A, S-F

Special Provisions 274, 335, 969

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D, DIMETHYLAMINE SALT), 9, III, MARINE POLLUTANT

### IATA

Limited quantity applies with an inner packaging less than 5 L or gross packageweight less than 30 kg. UN number UN3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Transport hazard class(es) 9

Packing group III

Special Provisions A97, A158, A197

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D, dimethylamine salt), 9, III

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## SECTION 15: Regulatory information

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

#### Water hazard class (WGK, Germany)

Chemical name: Dma 4 (dow) 49 percent 2,4- d, dimethylamine salt, cas number: 2008-39-1

WGK hazard class: WGK 2 - Hazardous to water

#### SARA 311/312 Hazards

Product name: Hi-Yield 2,4-D Amine A Selective Weed Killer

#### SARA 313 Components

Product name: Hi-Yield 2,4-D Amine A Selective Weed Killer

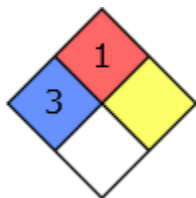
#### Comprehensive Environmental Response Compensation and Liability Act (CERCLA)(401 CFR 302)

Product name: Hi-Yield 2,4-D Amine A Selective Weed Killer

### HMIS Rating

Hi-Yield 2,4-D Amine A Selective Weed Killer	
HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

### NFPA Rating



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## SECTION 16: Other information

## **Safety Data Sheet**

### **Hi-Yield 2,4-D Amine A Selective Weed Killer**

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

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