



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Hi-Yield 2,4-D Amine

SECTION 1: Identification

GHS Product identifier

Product name	Hi-Yield 2,4-D Amine
Product number	33254Q
Brand	Hi-Yield

Other means of identification

EPA Reg. No. 228-238-7401

Recommended use of the chemical and restrictions on use

A liquid 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 serious eye damage. Harmful if swallowed. May cause damage to organs (liver, kidneys) through prolonged or repeated exposure. 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. 1
- Acute toxicity, oral, Cat. 4
- Specific target organ toxicity (repeated exposure), Cat. 2

GHS label elements, including precautionary statements

Pictograms

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Signal word

Danger

Hazard statement(s)

H318
H302
H373

Causes serious eye damage
Harmful if swallowed
May cause damage to organs [organs] through prolonged or repeated exposure [route]
Harmful to aquatic life
Toxic to aquatic life with long lasting effects

Precautionary statement(s)

P280
P305+P351+P338

P310
P264
P270
P301+P312
P330
P501
P260
P314
P102
P103

Wear eye protection/face protection.
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/...
Wash ... thoroughly after handling.
Do not eat, drink or smoke when using this product.
IF SWALLOWED: Call a POISON CENTER /doctor/...if you feel unwell,
Rinse mouth.
Dispose of contents/container to ...
Do not breathe dust/fume/gas/mist/vapors/spray.
Get medical advice/attention if you feel unwell.
Keep out of reach of children.
Read label before use.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Dma 4 (dow) 49 percent 2,4- d, dimethylamine salt (CAS no.: 2008-39-1)	47.2 %
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 CHEMTREC at 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 to 20 minutes. Call a poison control center or doctor for treatment advice.

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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	Immediately call a poison control center or doctor. Rinse mouth out and have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Eye irritation.

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

Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

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

Specific hazards arising from the chemical

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

Special protective actions for fire-fighters

Fire Fighting Equipment: Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

Fire Fighting Instructions: 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.

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.

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.

Reference to other sections

Section 8

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

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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. Store at temperatures above 32°F. Open containers in well-ventilated areas. Keep container tightly sealed when not in use. Do not stack cardboard boxes more than two pallets high. Do not store near open containers of fertilizer, seed or other pesticides.

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

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

Skin protection

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

Body protection

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.

Respiratory protection

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

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Clear pale yellow liquid
Odor	Phenolic-amine
Odor threshold	No data available.
pH	8.9 – 9.1
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	Not applicable due to aqueous formulation
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability or explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	9.7 lbs/gal
Solubility(ies)	Soluble
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.

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Viscosity

No data available.

Additional properties

Physical state

Liquid

Color

Clear pale yellow

SECTION 10: Stability and reactivity

Reactivity

Not reactive.

Chemical stability

Stable under all 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.

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

IARC carcinogen

Result: Group 2B

Skin corrosion/irritation

Rabbit – Slightly irritating.

Serious eye damage/irritation

Rabbit – Severely irritating / corrosive.

Respiratory or skin sensitization

Not sensitizing.

Germ cell mutagenicity

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

Carcinogenicity

CARCINOGENICITY:

EPA: Not Listed

ACGIH: Not Listed

NTP: Not Listed

IARC: Class 2B (chlorophenoxy herbicides)

OSHA: Not Listed

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Reproductive toxicity

No evidence in animal studies.

Specific target organ toxicity (STOT) - single exposure

No information available.

Specific target organ toxicity (STOT) - repeated exposure

Repeated overexposure to phenoxy herbicides may cause effects to liver, kidneys, blood chemistry, and gross motor function. Rare cases of peripheral nerve damage have been reported, but extensive animal studies have failed to substantiate these observations, even at high doses for prolonged periods.

Aspiration hazard

No information available.

SECTION 12: Ecological information

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

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.

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.

SECTION 14: Transport information

DOT (US)

Containers < 21 Gallons:

Not regulated by DOT.

Containers > 21 Gallons:

DOT Shipping Name: UN3082, Environmentally Hazardous Substance, Liquid, N.O.S.

(2,4-Dichlorophenoxyacetic Acid), 9, PG III

Reportable Quantity (RQ): 100 lbs. (26.3 gallons of product)

DOT Emergency Response Guide: 171

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Marine Pollutant: Yes

IMDG

Not regulated

IATA

Not regulated

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

Labeling requirements under FIFRA

Product name: Hi-Yield 2,4-D Amine

SARA 311/312 Hazards

Product name: Hi-Yield 2,4-D Amine

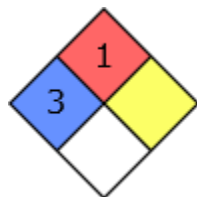
SARA 313 Components

Product name: Hi-Yield 2,4-D Amine

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

Product name: Hi-Yield 2,4-D Amine

NFPA Rating



SECTION 16: Other information

Further information/disclaimer

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