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|---|----------------------------------|
| <b>Material<br/>Safety<br/>Data<br/>Sheet</b> | <b>Hi-Yield® 2, 4-D Amine #4</b> |
|---|----------------------------------|

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

|  |                                    |
|--|------------------------------------|
| Name: Voluntary Purchasing Groups, Inc.                          | Box 460, Bonham, TX 75418          |
| Emergency Telephone: (903) 583-5501 or (800) 424-9300 (Chemtrec) |                                    |
| For Additional Information Contact: Product Manager or Chemtrec  | Date Prepared: 03-14-03            |
| Common Name (Used on Label):<br>Hi-Yield® 2,4-D Amine #4         | Chemical Family: Phenoxy Herbicide |
| Chemical Name: Does not apply                                    | Formula: Does not apply            |
| Trade Name & Synonyms: Hi-Yield® 2,4-D Amine #4                  |                                    |

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

| HAZARDOUS COMPONENT                                  | CAS NUMBER     | % (TYPICAL) | TLV (UNITS)    | PEL (UNITS)    |
|--|----------------|-------------|----------------|----------------|
| Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid | Not determined | 47.2        | Not determined | Not determined |
|  |                |             |                |                |
|  |                |             |                |                |

PEL: Permissible Exposure Limit established by the Occupational Safety and Health Administration.

TLV: Threshold Limit Value recommended by the American Conference of Governmental Industrial Hygienists.

### SECTION 3 - PHYSICAL DATA

|  |   |  |
|--|---|--|
| BOILING POINT (°F)<br>Not determined               | SPECIFIC GRAVITY (H <sub>2</sub> O=1)<br>1.17 | VAPOR PRESSURE (mm Hg)<br>Not determined           |
| PERCENT VOLATILE BY VOLUME (%)<br>Not determined   | VAPOR DENSITY (AIR=1)<br>Not determined       | EVAPORATION RATE (ethyl ether=1)<br>Not determined |
| SOLUBILITY IN WATER<br>Complete                    | REACTIVITY IN WATER<br>Not determined         |  |
| APPEARANCE AND ODOR<br>Amber liquid; phenolic odor |   |  |

### SECTION 4 - FIRE AND EXPLOSION DATA

|   |  |  |
|---|--|--|
| FLASH POINT (°F)<br>None  | FLAMMABLE LIMITS IN AIR (% by volume)<br>Lower: Not determined Upper: Not determined |  |
| EXTINGUISHING MEDIA<br>Water, foam, dry chemical, CO <sub>2</sub>   | AUTO IGNITION TEMPERATURE<br>Not determined  |  |
| UNUSUAL FIRE AND EXPLOSION HAZARDS<br>Not determined  |  |  |
| SPECIAL FIRE FIGHTING PROCEDURES<br>Material is non-flammable. Respiratory protection and protective clothing recommended for potentially hazardous |  |  |

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| Product Name: Hi-Yield® 2,4-D Amine #4 | ID Number: | Page 1 of 3 |
|--|------------|-------------|

fumes evolved under fire conditions. Avoid excessive use of water to reduce environmental contamination.

### SECTION 5 - HEALTH INFORMATION

#### PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS

Not determined

#### SIGNS AND SYMPTOMS OF EXPOSURE

##### (1) ACUTE OVEREXPOSURE

Overexposure may result in weakness, lethargy, and muscle twitching.

##### (2) CHRONIC OVEREXPOSURE

Not determined

#### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Not determined

#### CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

Not determined

#### NTP

YES  NO

#### IARC

YES  NO

#### OSHA

YES  NO

#### OTHER EXPOSURE LIMITS

Not determined

#### EMERGENCY AND FIRST AID PROCEDURES

IF SWALLOWED: Call a physician immediately. Give victim one or two glasses of water and induce vomiting by touching back of throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person. SKIN CONTACT: Remove contaminated clothing and wash affected areas with soap and water. EYE CONTACT: Flush with water for at least 15 minutes. Call a physician.

### SECTION 6 - REACTIVITY DATA

#### STABILITY

Unstable  Stable

#### CONDITIONS TO AVOID

Extreme temperatures.

#### INCOMPATIBILITY (Materials to Avoid)

Strong oxidizers.

#### HAZARDOUS DECOMPOSITION PRODUCTS

Not determined

#### HAZARDOUS POLYMERIZATION

May Occur  Will Not occur

#### CONDITIONS TO AVOID

Does not apply

### SECTION 7 - SPILL OR LEAK PROCEDURES

#### STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED

Soak up with absorbent material and dispose of in accordance with state and local procedures. Flush area with detergent and water. Do not allow runoff to contact desirable vegetation or water supplies.

#### WASTE DISPOSAL METHOD

Dispose of in accordance with Federal, State, and local regulations.

**SECTION 8 - PERSONAL PROTECTION INFORMATION****RESPIRATORY PROTECTION**

Not determined

**VENTILATION**

General Convection

**PROTECTIVE GLOVES**

Rubber

**EYE PROTECTION**

Safety glasses

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

As needed to minimize exposure.

**SECTION 9 - SPECIAL PRECAUTIONS****PRECAUTIONS TO BE TAKEN IN HANDLING & STORING**

Refer to container label.

**OTHER PRECAUTIONS**

Do not get into eyes, skin, or on clothing. Wash skin and clothing after handling.

**SECTION 10 - OTHER INFORMATION**

The information contained within was obtained from authoritative sources and is believed to be accurate for the manner in which the product is intended to be used. Other uses could result in ramifications, which are not included within this document.