1. CHEMICAL IDENTIFICATION

Product Name: BARRICADE 65WG HERBICIDE  
EPA Signal Word: Caution
Active Ingredient(%): Prodiamine (65%)  
Chemical Name: N3,N3-Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-m-phenylenediamine
Chemical Class: Dinitoaniline Herbicide

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Material</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other</th>
<th>NTP/IARC/OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaolin Clay</td>
<td>15 mg/m3 (Total Dust); 5 mg/m3 (Respirable)</td>
<td>2 mg/m3 (Respirable)</td>
<td>Not Established</td>
<td>No</td>
</tr>
<tr>
<td>Surfactant</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>No</td>
</tr>
<tr>
<td>Dispersing Agent</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>No</td>
</tr>
<tr>
<td>Sodium Sulfite</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>IARC, 3</td>
</tr>
<tr>
<td>Surfactant</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>No</td>
</tr>
<tr>
<td>Prodiamine (65%)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>No</td>
</tr>
</tbody>
</table>

* recommended by manufacturer

3. HAZARDS IDENTIFICATION

Notes to Physician

There is no specific antidote if this product is ingested.  
Treat symptomatically.

Symptoms of Acute Exposure

Exposure may cause eye or skin irritation. A skin sensitizing (allergic) reaction may occur in some individuals.

Hazardous Decomposition Products

None Known

Physical Properties

Appearance: Greenish-Yellow Granules
Odor: Odorless

Unusual Fire, Explosion and Reactivity Hazards

Explosion/ Reactivity Hazards During Manufacturing and Processing: This product qualifies as a ST-2 Hazard Classification according to NFPA 68, Venting of Deflagrations Guide, 1988 edition. It poses a dust explosion hazard because it can generate and store static electricity, is sensitive to ignition by electrostatic discharge, ignites at low dust cloud concentrations and once ignited, generates pressure at a very rapid rate.
4. FIRST AID MEASURES

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

**Ingestion:** If victim is fully conscious, give a large quantity of water to drink and induce vomiting. Never give anything by mouth to an unconscious person.

**Eye Contact:** Immediately rinse eyes with a large amount of running water. Hold eye lids apart to rinse the entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of a physician.

**Skin Contact:** Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.

**Inhalation:** Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

**Notes to Physician**
- Medical Condition Likely to be Aggravated by Exposure
  - Individuals with allergic history or pre-existing dermatitis should use extra care in handling this product.

5. FIRE FIGHTING MEASURES

**Fire and Explosion**

Flash Point (Test Method): Not Applicable
Flammable Limits (% in Air): Lower: %; Upper: % Not Applicable
Autoignition Temperature: Not Available
Flammability: Not Flammable

**Unusual Fire, Explosion and Reactivity Hazards**

Explosion/ Reactivity Hazards During Manufacturing and Processing: This product qualifies as a ST-2 Hazard Classification according to NFPA 68, Venting of Deflagrations Guide, 1988 edition. It poses a dust explosion hazard because it can generate and store static electricity, is sensitive to ignition by electrostatic discharge, ignites at low dust cloud concentrations and once ignited, generates pressure at a very rapid rate.

**Fire Hazards:** Thermal decomposition products may include, but are not limited to, Oxides of Nitrogen, Hydrogen Fluoride and Carbon Monoxide.

**In Case of Fire**

Use dry chemical, foam, or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated.

6. ACCIDENTAL RELEASE MEASURES

**In Case of Spill or Leak**

Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and use a particulate filter, NIOSH approved per 42 CFR Part 84. Select N or R or P type as appropriate for the oil characteristics of any other air contaminants present. Filter efficiency may range from 95 - 99.97% as appropriate for the size distribution of dusts present. For small spills, sweep up, keeping dust to a minimum and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal the container and handle in an approved manner. Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of the reach of children and domestic animals. Do not store food,
beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT.

FOR COMMERCIAL APPLICATIONS AND ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

Eye Contact: To avoid eye contact, wear safety glasses with side shields or chemical goggles.

Skin Contact: To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering.

Inhalation: To avoid breathing dust, use a particulate filter, NIOSH approved per 42 CFR Part 84. Select N or R or P type as appropriate for the oil characteristics of any other air contaminants present. Filter efficiency may range from 95 - 99.97% as appropriate for the size distribution of dusts present.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Greenish-Yellow Granules

Odor: Odorless

Melting Point: Not Available

Boiling Point: Not Applicable

Specific Gravity/Density: 0.63 g/ml

pH: 9.21

Solubility in H2O

Prodiamine: 0.013 ppm @ 25°C

Vapor Pressure

Prodiamine: 1.00E-06 mm Hg @ 20°C

10. STABILITY AND REACTIVITY

Reactivity

Stability: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: Oxidizing Agents; Thermal, Mechanical and Electrical Ignition Sources.

Hazardous Decomposition Products

None Known

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Ingestion: practically non-toxic

Oral LD50 (Rat) : > 5,000 mg/kg body weight

Dermal: slightly toxic

Dermal LD50 (Rat) : > 2,000 mg/kg body weight

Inhalation: Not Available

Inhalation LC50 (Rat) : Not Available

Eye Contact: mildly irritating (Rabbit)

Skin Contact: mildly irritating (Rabbit)

Skin Sensitization: sensitizing (Guinea Pig)

Mutagenic Potential

Prodiamine: None Observed

Reproductive Hazard Potential
Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

**Characteristic Waste** Not Applicable

**Chronic/Subchronic Toxicity Studies**
- **Prodiamine**: Fetal toxicity at high dose levels (rats); developmental and maternal toxicity observed at 1g/kg/day.

**Carcinogenic Potential**
- **Prodiamine**: Benign thyroid tumors (rat). None observed (mouse).

**Other Toxicity Information**
- **Not Available**

**Toxicity of Other Components**
- **Dispersant**: Irritating to eyes, skin or respiratory tract. Ingestion may result in gastrointestinal irritation.
- **Dispersing Agent**: Exposure can result in eye, skin and respiratory tract irritation.
- **Kaolin Clay**: Long term overexposure to high concentrations of this dust without the use of a respirator may produce x-ray evidence of dust in the lungs and may affect respiratory function.
- **Surfactant**: Exposure can result in moderate eye irritation. Prolonged or repeated contact may cause skin irritation.

**Target Organs**

**Active Ingredients**
- Prodiamine: Liver and Thyroid

**Inert Ingredients**
- Dispersant: Eyes, Skin or Respiratory Tract
- Dispersing Agent: Eyes, Skin and Respiratory Tract
- Kaolin Clay: Respiratory Tract
- Surfactant: Eyes and Skin

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### 12. ECOLOGICAL INFORMATION

**Summary of Effects**
- **Prodiamine**: Not Available

**Eco-Acute Toxicity**
- **Prodiamine**: Rainbow Trout 96-hour LC50 >829 ug/L  
  Bluegill Sunfish 96-hour LC50 >552 ug/L  
  Daphnia magna 48-hour LC50 >658 ug/L

**Eco-Chronic Toxicity**
- **Prodiamine**: Not Available

**Environmental Fate**
- **Prodiamine**:  
  - Photolysis: Unstable (dilute aqueous solution half life less than 1 hour)  
  - Hydrolysis: Stable  
  - Soil Half-life: 2 months

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### 13. DISPOSAL CONSIDERATION

**Disposal**
- Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

**Characteristic Waste**: Not Applicable
14. TRANSPORT INFORMATION

DOT Classification:
Not Applicable. Not regulated by DOT.

B/L Freight Classification
Herbicides, NOI

International Transportation
Not Applicable

15. REGULATORY INFORMATION

SARA Title III Classification
Section 311/312: Acute Health Hazard
Chronic Health Hazard
Reactive Hazard

Section 313 chemical(s): Not Applicable

Proposition 65
Not Applicable

CERCLA Reportable Quantity (RQ)
None

RCRA Classification
Not Applicable

TSCA Status
Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings
| Health:  | 1 |
| Flammability: | 1 |
| Reactivity: | 1 |

<table>
<thead>
<tr>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Least</td>
</tr>
<tr>
<td>1</td>
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<td>3</td>
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<td>4</td>
<td>Severe</td>
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</table>

Questions concerning the safe handling of the product should be referred to:

Health, Safety and Environmental Department
1-800-334-9481 (extension 2701)

Issued Date: 01/02/1992
Revised Date: 02/28/2000
Supersedes: 02/17/2000

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

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