



# Material Safety Data Sheet

United Phosphorus, Inc.

NFPA	PPE	

Issued Date 20-Apr-2007

Revision Date 12-May-2009

Revision Number: 2

## 1. PRODUCT AND COMPANY IDENTIFICATION

### UPI

630 Freedom Business Center  
Suite 402  
King of Prussia, PA 19406

### Emergency Telephone Number

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887  
Medical: Rocky Mountain Poison Control Center  
(866) 673-6671 (24hrs)

### Company Information

UPI

### Contact Information

Customer Service  
R&D Technical Service

### Phone Number

1-800-438-6071  
610-878-6100

### Available Hrs

8:00 am to 5:00 pm EST  
8:00 am - 5:00 pm (EST)

### Product Name

### EPA Reg #

### Recommended Use

### Product Code

Devrinol 50 DF Selective Herbicide

70506-36

herbicide

12U-117

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Irritating to eyes

### CAUTION

Appearance Tan.

Physical State Granular.

Odor Not available

### Potential Health Effects

- Inhalation
- Skin contact

Eyes  
Skin  
Inhalation

Contact with eyes may cause irritation.  
Substance may cause slight skin irritation.  
May cause irritation of respiratory tract.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Ingredients Name**

Chemical Name	CAS-No	Weight %	OSHA PEL
Kaolin	1332-58-7	35	N/A
Devrinol technical (Napropamide)	15299-99-7	50	N/A

**4. FIRST AID MEASURES****Eye Contact**

Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.  
Call a poison control center or doctor for treatment advice.

**Skin Contact**

Take off contaminated clothing.  
Rinse skin immediately with plenty of water for 15-20 minutes.  
Call poison control center or doctor for treatment advice.

**Inhalation**

Move person to fresh air.  
If person is not breathing, call 911 or an ambulance, then give artificial respiration.  
Toxic by inhalation  
Call a poison control center or doctor for further treatment advice.

**Ingestion**

Call a physician or Poison Control Center immediately  
Have person sip a glass of water if able to swallow  
Never give anything by mouth to an unconscious person  
Do not induce vomiting unless told to do so by a poison control center or doctor

**Notes to Physician**

No information available

**5. FIRE-FIGHTING MEASURES****Flammable Explosive Properties****Flash Point**

Not available

**Autoignition Temperature**

Not available

**Flammability Limits in Air**

Not available

**Extinguishing Media**

Water spray Dry chemical Foam Carbon dioxide (CO<sub>2</sub>)

**Fire/Explosion Hazard**

Thermal decomposition can lead to release of irritating gases and vapours

**Hazardous Combustion Products**

No information available.

**NFPA**

Health 1

Flammability 0

Instability 0

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with the skin and the eyes. Use personal protective equipment.
<b>Environmental Precautions</b>	Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits..
<b>Methods for Clean-up</b>	Prevent product from entering drains. Sweep up and shovel into suitable containers for disposal.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Keep in a well-ventilated place. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Keep out of reach of children. Remove and wash contaminated clothing before re-use.
<b>Storage</b>	Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur. . Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL
Kaolin	2 mg/m <sup>3</sup> Respirable fraction.	

<b>Engineering Controls</b>	Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems. .
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### Personal Protective Equipment

#### Eye/face Protection

Use eye protection to avoid eye contact. . Eye contact should be avoided through the use of chemical safety glasses, goggles, or a faceshield selected in regard to exposure potential.. Where there is potential for eye contact have eye flushing equipment available..

#### Skin Protection

Impervious clothing. Impervious gloves.

#### Respiratory Protection

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134. .

### General Hygiene Considerations

Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Tan	<b>Odor</b>	Not available
<b>Physical State</b>	Granular	<b>pH</b>	6.41
<b>Boiling Point/Range</b>	Not available	<b>Melting Point/Range</b>	Not available
<b>Specific Gravity</b>	Not available	<b>Solubility</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Vapor Pressure</b>	Not available
<b>Vapor Density</b>	Not available	<b>VOC Content</b>	Not available
<b>Viscosity</b>	Not available	<b>Molecular Weight</b>	No data available
<b>Bulk Density</b>	28-34 lb/cu. ft	<b>Percent Solids</b>	Not available
<b>Percent Volatiles</b>	Not available		

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under recommended storage conditions
<b>Conditions to Avoid</b>	No information available.
<b>Incompatible Materials</b>	oxidizers.
<b>Hazardous Decomposition Products</b>	Thermal decomposition can lead to release of irritating gases and vapours.
<b>Possibility of Hazardous Polymerization</b>	Hazardous polymerisation does not occur

**11. TOXICOLOGICAL INFORMATION****Acute Toxicity****Component Information**

Devrinol 50 DF:  
Acute oral LD50 = >5,000 mg/kg (female rat)  
Acute dermal LD50 = >5,000 mg/kg (rat)  
Acute inhalation LC50 = >2.32.mg/L  
Skin irritation = Slightly irritating  
Eye irritation = Mildly irritating, clearing within 72 hours  
Dermal Sensitization = Not a sensitizer  
Devrinol 50  
Inhalation of overwhelming amounts of kaolin dust after many years of exposure induced pneumoconiosis in workers. There is no evidence of mutagenic or clastogenic potential. Studies in animals have shown that this product is not a developmental toxicant.

**Chronic Toxicity**

There are no known carcinogenic chemicals in this product

**Carcinogenicity**

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Toxic to fish.

**13. DISPOSAL CONSIDERATIONS****Waste Disposal Method**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or 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. .

**Contaminated Packaging**

Empty containers may contain hazardous residues. Containers should be handled as instructed by following all container disposal directions .

**14. TRANSPORT INFORMATION****DOT**

Not regulated

**ICAO**

Not regulated

**IATA**

Not regulated

**IMDG/IMO**

Not regulated

**15. REGULATORY INFORMATION****International Inventories****Kaolin**

<b>DSL</b>	Listed
<b>EINECS/ELINCS</b>	Listed
<b>ENCS</b>	Listed
<b>CHINA</b>	Listed
<b>KECL</b>	Listed

**Devrinol technical (Napropamide)**

<b>EINECS/ELINCS</b>	Listed
<b>ENCS</b>	Listed
<b>CHINA</b>	Listed
<b>KECL</b>	Listed

**USA****Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

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### SARA 311/312 Hazardous Categorization

Chronic Health Hazard	No
Acute Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### Clean Water Act

### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

### CERCLA

### RCRA

### Pesticide Information

### State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Kaolin			Listed.	Listed.	

### International Regulations

#### Mexico - Grade

Mexico - Grade

Chemical Name	Category	Carcinogen Status	Exposure Limits
Kaolin			10 mg/m <sup>3</sup>

#### Canada

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

#### WHMIS Hazard Class

Not determined

## 16. OTHER INFORMATION

#### Revision Date

12-May-2009

#### Revision Summary

Update section 11 and 12 data

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**End of MSDS**