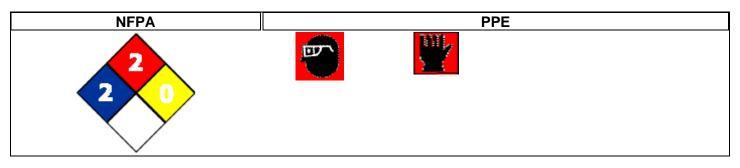


# **United Phosphorus, Inc.**



Issued Date 19-Apr-2007

Revision Date 22-Dec-2010

**Revision Number:** 4

# **1. PRODUCT AND COMPANY IDENTIFICATION**

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

Company Information

Customer Service R&D Technical Service Phone Number 1-800-438-6071 610-878-6100

**Emergency Telephone Number** 

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

Medical: Rocky Mountain Poison Control Center

(866) 673-6671 (24hrs)

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 2-EC Selective Herbicide 70506-64 herbicide 12U-118

# 2. HAZARDS IDENTIFICATION

	Emergency Overview Flammable Liquid May cause eye and skin irritation May cause irritation to the respiratory tract. Harmful if swallowed Harmful if absorbed through skin	
CAUTION Appearance Light brown.	Physical State Liquid.	Odor Not available
Potential Health Effects		
- Inhalation - Skin contact Eyes Skin Ingestion	Moderately irritating to the eyes. May cause mild skin irritation. Irritation to the mouth, pharnyx, esophagus and stomach may	result upon ingestion

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

# **Ingredients Name**

Chemical Name	CAS-No	Weight %	OSHA PEL
Hexanol	111-27-3	14	N/A
Devrinol technical (Napropamide)	15299-99-7	24.1	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 artifical respiration. 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

		70.4°C / 158.7°F Not available	
Flammability Limits in Air		Not available	
Extnguishing Media		Water spray Dry chemical Foam Carbon dioxide (C	:02)
Fire/Explosion Hazard		Combustible material Keep product and empty container away from heat and sources of ignition Thermal decomposition can lead to release of irritating gases and vapours	
Hazardous Combustion Products		Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, and other flames and ignition sources at locations distant from material handling point., Avoid breathing fumes from fire exposed material	
NFPA	Health 2	Flammability 2	Instability 0
6. ACCIDENTAL RELEASE MEASURES			

Personal Precautions	Remove all sources of ignition. Avoid contact with the skin and the eyes. Use personal protective equipment. Ensure adequate ventilation. Take precautionary measures against static discharges.
Environmental Precautions	Keep material out of lakes, streams, ponds and sewer drains. Dike to confine spill and absorb with an absorbant such as clay, sand or soil 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 pertinenet environmental permits
Methods for Clean-up	Remove all ignition sources. Ground and bond containers when transferring material. Use non- sparking tools . Prevent product from entering drains. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable and closed containers for disposal.

### 7. HANDLING AND STORAGE

Handling

Remove all sources of ignition. Keep out of reach of children. Do not eat, drink or smoke when using this product. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Use spark resistant tools. Check that all equipment is properly bonded and grounded.. Wash thoroughly after handling. . Remove and wash contaminated clothing before re-use. Empty containers may contain hazardous residues.

#### Storage

Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur. . Keep away from open flames, hot surfaces and sources of ignition. Ensure that all storage and handling equipment is properly rated, grounded and installed to satisfy electrical classification requirements. Static electricity may accumulate and create fire hazard. All storage containers must be bonded and grounded during filling and emptying operations. . Keep containers tightly closed in a dry, cool and well-ventilated place.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines	
Engineering Controls	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.
	PESTICIDE APPLICATORS & WORKERS. THESE WORKERS MUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170
Personal Protective Equipment	
Eye/face Protection	Use eye protection to avoid eye contact Goggles. Where there is potential for eye contact have eye flushing equipment available
Skin Protection	Long sleeved clothing. Long pants. waterproof gloves. Chemical resistant gloves. Socks and footwear.
Respiratory Protection	Avoid breathing dust. 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. Keep away from food, drink and animal feeding stuffs. Wash hands and face before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Physical State
<b>Boiling Point/Range</b>
Specific Gravity
Evaporation Rate
Vapor Density
Viscosity
Bulk Density
Percent Volatiles

Light brown Liquid Not available Not available Not available Not available 9.91 lb/gal Not available Odor pH Melting Point/Range Solubility Vapor Pressure VOC Content Molecular Weight Percent Solids Not available approx.6 Not available Not available Not available Not available No data available Not available

### **10. STABILITY AND REACTIVITY**

Stability

Stable under recommended storage conditions

Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials	oxidizers.
Hazardous Decomposition Products	Oxides of carbon and nitrogen. Ammonical vapors.
Possibility of Hazardous Polymerization	Hazardous polymerisation does not occur

# **11. TOXICOLOGICAL INFORMATION**

#### **Acute Toxicity**

Component Information	Devrinol 2 EC: Acute oral LD50 = 2,419 mg/kg (rat) Acute dermal LD50 = >2,000 mg/kg (rabbit) Acute inhalation LC50 = >2.02 mg/L (4 hr, rat) Eye Irritation = Moderate irritant Skin = Moderately irritating to the skin Systemic toxicity is not expected after dermal exposure. Sensitization = Sensitizer
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. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. Do not apply directly to wetlands or water.

Contaminated Packaging	Non refillable container. Do not reuse this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.
	14. TRANSPORT INFORMATION
DOT Proper Shipping Name Hazard Class	When shipped domestically by highway in non-bulk containers this product can be shipped as not regulated. Combustible liquid, n.o.s. COMB LIQUID

ICAO	Not regulated
	Not regulated

NA1993

Not regulated

PG III

### **15. REGULATORY INFORMATION**

#### **International Inventories**

UN-No

IMDG/IMO

**Packing Group** 

Hexanol	
DSL	Listed
EINECS/ELINCS	Listed
ENCS	Listed
CHINA	Listed
KECL	Listed
Devrinol technical (Napropamide)	
EINECS/ELINCS	Listed
ENCS	Listed
CHINA	Listed
KECL	Listed
USA	

#### 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 and Title 40n of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization Chronic Health Hazard

No

Acute Health Hazard	Yes
Fire Hazard	Yes
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
Hexanol		Substance no. 1001	Listed.		Listed.
		Listed.			
		Substance no. 2079			
		Listed.			

#### International Regulations

Mexico - Grade

Not available

### 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**

22-Dec-2010

Revision Summary Update section 13 Update section 8 Update section 2 UPI, Inc. believes that the information and recommendations container herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with other materials or in any process. Further, since the conditions and methods of use are beyond the control of UPI, Inc. UPI, Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

End of MSDS