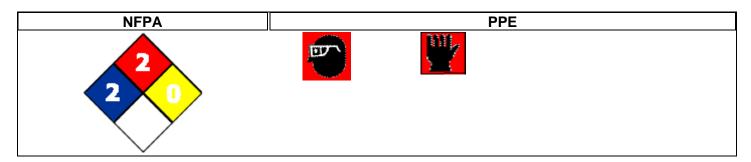
Material Safety Data Sheet



United Phosphorus, Inc.



Issued Date 19-Apr-2007 Revision Date 19-Nov-2009 Revision Number: 3

1. PRODUCT AND COMPANY IDENTIFICATION

UPI

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

Contact Information
Customer Service
R&D Technical Service

12U-118

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 2-EC Selective Herbicide 70506-64 herbicide

2. HAZARDS IDENTIFICATION

Emergency Overview

Flammable Liquid
May cause eye and skin irritation
May cause irritation to the respiratory tract.

CAUTION

Appearance Light brown.Physical State Liquid.Odor Not available

Potential Health Effects

- Inhalation

- Skin contact

Eyes Moderately irritating to the eyes. **Skin** May cause mild skin irritation.

Ingestion 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

Flash Point 70.4°C / 158.7°F **Autoignition Temperature** Not available

Flammability Limits in Air Not available

Extraguishing Media Water spray Dry chemical Foam Carbon dioxide (CO2)

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 ProductsVapors 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

HandlingRemove 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. .

Personal Protective Equipment

Eye/face Protection

Skin Protection Respiratory Protection Use eye protection to avoid eye contact. . Goggles. Where there is potential for eye contact have eye flushing equipment available..

Wear protective gloves/clothing. Impervious gloves.

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 Light brown Odor Not available **Physical State** Liquid approx.6 pН **Boiling Point/Range** Not available Melting Point/Range Not available Not available Solubility Not available **Specific Gravity** Vapor Pressure **Evaporation Rate** Not available Not available **Vapor Density VOC Content** Not available Not available Not available No data available **Viscosity** Molecular Weight **Bulk Density** 9.91 lb/gal **Percent Solids** Not available **Percent Volatiles** Not available

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions

Conditions to AvoidKeep 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

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

14. TRANSPORT INFORMATION

DOT

When shipped domestically by highway in non-bulk containers this product can be shipped as not regulated.

Proper Shipping Name

Combustible liquid, n.o.s.

14. TRANSPORT INFORMATION

Hazard Class COMB LIQUID UN-No NA1993 Packing Group PG III

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

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

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

12U-118 - Devrinol 2-EC Selective Herbicide

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

19-Nov-2009

Revision Summary

Update section 14

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End of MSDS