

United Phosphorus, Inc.

NFPA	PPE	

Issued Date 17-Sep-2012

Inhalation

Revision Date 17-Sep-2012

Revision Number: 1

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	Contact Information	Phone Number	Available Hrs
UPI	Customer Service R&D Technical Service	1-800-438-6071 610-878-6100	8:00 am to 5:00 pm EST 8:00 am - 5:00 pm (EST)
Product Name EPA Reg # Recommended Use Product Code	Devrinol DF-XT Selective 70506-36 herbicide 12U-117X	Herbicide	
	2. HAZARDS II	DENTIFICATION	
CAUTION		:y Overview ate eye irritation tact with skin and if sv	vallowed
Appearance Tan.	Physical Sta	ate Granular.	Odor Not available.
Potential Health Effects			
- Inhalation - Skin contact Eyes Skin	Contact with eyes may ca Substance may cause sli		

Substance may cause slight skin irritation.

May cause irritation of respiratory tract.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Kaolin	1332-58-7	31.95	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 10 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction
Napropamide	15299-99-7	50	N/A
Titanium dioxide	13463-67-7	5	TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust

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	If breathing is irregular or stopped, administer artificial respiration May cause allergic respiratory reaction Toxic by inhalation Call a poison control center or doctor for further treatment advice.	
Ingestion	Call a physician or poison control center immediately May produce an allergic reaction 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 Autoignition Temperature	Not available Not available
Flammability Limits in Air	Not available
Extnguishing Media	Water spray Dry chemical Foam Carbon dioxide (CO2)
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. ACCIDENT	AL RELEASE MEASURES	
Personal Precautions	Avoid contact w	ith the skin and the eyes. Use personal prot	tective equipment.
Environmental Precaution	requirements, fo	atory specialist to determine appropriate state or assistance in waste characterization and/ ner requirements listed in pertinenet environ	or hazardous waste
Methods for Clean-up Prevent product from enter containers for disposal.		t from entering drains. Sweep up and shove isposal.	I into suitable
7. HANDLING AND STORAGE			
Handling	or smoke when	rentilated place. Avoid contact with skin and using this product. Keep out of reach of chil ated clothing before re-use.	
Storage		a where cross-contamination with pesticides occur. Keep in a dry, cool and well-ventilated d containers.	

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	Kaolin
ACGIH TLV	TWA: 2 mg/m ³ particulate matter containing no asbestos and <1% crystalline silica, respirable fraction
OSHA PEL	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction
	(vacated) TWA: 10 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction
Chemical Name	Titanium dioxide
ACGIH TLV	TWA: 10 mg/m ³
OSHA PEL	TWA: 15 mg/m ³ total dust
	(vacated) TWA: 10 mg/m ³ total dust

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. 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	Long sleeved clothing. Long pants. Chemical resistant gloves. Socks and footwear.
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

Appearance Physical State Boiling Point/Range Specific Gravity Evaporation Rate Vapor Density Viscosity Bulk Density Percent Volatiles Tan Granular Not available Not available Not available Not available 30-40 lb/cu. ft Not available

- Odor pH Melting Point/Range Solubility Vapor pressure VOC Content Molecular Weight Percent Solids
- Not available 6.5-8.5 Not available Not available Not available no data available Not available

10. STABILITY AND REACTIVITY

Stability

Stable under recommended storage conditions

Conditions to Avoid	No information available
Incompatible Materials	oxidizers
Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating gases and vapours
Possibility of Hazardous Polymerization	Hazardous polymerisation does not occur
11. TOXICOLOGICAL INFORMATION	
Acute Toxicity	

Product Information	Devrinol DF-XT: 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
Component Information	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 anmials have shown that this product is not a developmental toxicant.

Chronic Toxicity

Carcinogenicity

The information below indicates whether any agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		Х

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 Non refillable container. Do not reuse this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag 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	Not regulated
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ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS/ ELINCS	ENCS	CHINA	KECL	AICS
Kaolin	Present	Х		Х	(1)-20	Х	KE-21772	Х
Napropamide				Х	(9)-2333	Х	KE-10499; KE-05-0908	Х
Titanium dioxide	Present	Х		Х	(5)-5225 (1)-558	Х	KE-33900	Х

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.

No

SARA 311/312 Hazardous Categorization	
Chronic Health Hazard	
Acute Health Hazard	

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

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Kaolin 1332-58-7(31.95)			X	
Napropamide 15299-99-7 (50)			X	
Titanium dioxide 13463-67-7 (5)			X	

State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	Category	California Prop. 65	Non-additive, corrosive chemical type
Titanium dioxide	13463-67-7	Carcinogen	Carcinogen	

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Kaolin	Х	Х	Х		
Titanium dioxide	Х	Х	Х		

International Regulations

Mexico - Grade

Mexico - Grade

Component	Category	Carcinogen Status	Exposure Limits
Kaolin			Mexico: TWA 10 mg/m ³
1332-58-7 (31.95)			Mexico: STEL 20 mg/m ³
Titanium dioxide 13463-67-7 (5)	Carcinogen		Mexico: TWA 10 mg/m ³ Mexico: STEL 20 mg/m ³

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

17-Sep-2012

Revision Summary

Add to system

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End of MSDS	S
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