

United Phosphorus, Inc.

NFPA		PP	E
3 0			
Issued Date 13-Dec-2012	Revision date	e 31-Mar-2014	Revision Number: 2
1.	PRODUCT AND CO	OMPANY IDENTIFIC	ATION
UPI 630 Freedom Business Center Suite 402 King of Prussia,PA 19406 <u>Company Information</u>	Contact Informatic	Medical: Rocky Mounta (866) 673-6671	300 (24hrs) or (703) 527-3887 in Poison Control Center
UPI	Customer Service R&D Technical Servi		8:00 am to 5:00 pm EST 8:00 am - 5:00 pm (EST)
Product name EPA Reg # Recommended use Product code	Tricor 75 DF Herbicide PMRA PCP No. 3066 Herbicide 12U-144C		
	2. Hazard	s Identification	
	May cause e May cause irritatio May cause dro Very toxic i Very tox	NCY OVERVIEW ye and skin irritation on to the respiratory tract. irritant wsiness and dizziness n contact with skin kic if swallowed corrosive	
DANGER appearance light, tan.	Physical	state granular.	Odor sweet. Musty.
Potential health effects EYES skin Ingestion	May cause slight irrita May cause mild skin ir Very toxic if swallowed	ritation. Very toxic in contac	t with skin.

3. Composition/information on Ingredients

Ingredients Name

ingi culonto numo			
Component	CAS-No	Weight %	OSHA PEL
Silicon dioxide	112926-00-8	1	(vacated) TWA: 6 mg/m ³
112926-00-8(1)			TWA: 20 mppcf : (80)/(%
			SiO2) mg/m ³ TWA
Metribuzin technical	21087-64-9	75	(vacated) TWA: 5 mg/m ³
21087-64-9 (75)			-

	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. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
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. Call a physician immediately Wash off immediately with plenty of water for at least 15 minutes Remove and wash contaminated clothing before re-use
Inhalation	If breathing is irregular or stopped, administer artificial respiration MAY CAUSE ALLERGIC RESPIRATORY REACTION Call a physician or poison control center immediately
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 Call a physician immediately Do not induce vomiting without medical advice
Notes to physician	No information available Treat symptomatically

5. Fire-fighting measures

Flammable Explosive Properties	
flash point Autoignition temperature	Not Applicable Not Available
Flammability Limits in Air	Not available
Extnguishing Media	Dry chemical, Water.
Fire/Explosion Hazard	Dust clouds generated during handling and/or storage can form explosive mixtures with air. Dust explosion characteristics vary with the particle size, particle shape, moisture content, contaminants, and other variables.
Hazardous combustion products	Dust clouds generated during handling and/or storage can form

		explosive mixtures with air. Dust explosion charact with the particle size, particle shape, moisture conte- contaminants, and other variables. As with any dry material, pouring this material or all free fall or be conveyed through chutes or pipes ca- and generate electrostatic sparks, potentially causi- the material itself, or any flammable materials which into contacft with the material or its contianer. Che- equipment is properly grounded and installed to sat classification requirements, Carbon dioxide (CO2), Methyl mercaptan, Amines.	ent, lowing it to n accumulate ng ignition of h may come ck that all tisfy electrical	
NFPA HEA	LTH 3	flammability 0 1	Instability -	
	6. Accidental re	elease measures		
Personal Precautions	Avoid contact with the	skin and the eyes.		
Environmental precautions	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	Sweep up and shovel i	nto suitable containers for disposal.		
	7. Handling	and Storage		
Handling	Keep out of reach of children. Provide adequate ventilation. Fine dust dispersed in air may ignite.			
Storage	Store in cool/well-venti well-ventilated place.	lated place. Keep containers tightly closed in a	cool,	

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL
Silicon dioxide		(vacated) TWA: 6 mg/m ³
		TWA: 20 mppcf : (80)/(% SiO2) mg/m ³ TWA
Metribuzin technical	TWA: 5 mg/m ³	(vacated) TWA: 5 mg/m ³
Engineering controls	Investigate engineering te	chniques to reduce exposures. Local mechanical exhaust
	ventilation is preferred. C	onsult ACGIH ventilation manual or NFPA Standard 91 for design
	of exhaust systems. PEST	FICIDE APPLICATORS & WORKERS. THESE WORKERS MUST
	REFER TO PRODUCT LA	ABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH
	EPA WORKER PROTECT	FION STANDARD 40 CFR PART 170.
Personal protective equipment		
Eye/Face Protection	Eye contact should be avo	bided through the use of chemical safety glasses, goggles, or a
-	faceshield selected in rega	ard to exposure potential.
Skin protection	Wear protective gloves/clo	othing. Socks and footwear.
Respiratory protection		is likely, use NIOSH approved respiratory protection equipment
		I and/or its components. Full facepiece equipment is
		d, replaces need for face shield and/or chemical goggles. If
		at a minimum with engineering controls, consult respirator
	• •	appropriate type equipment for given application. Observe
		specified by NIOSH or the manufacturer. For emergency and
		ere may be a potential for significant exposure, use an approved
		, self-contained breathing apparatus. Respiratory protection
	programs must comply wit	
	programs must comply wi	11 23 OF IX 1310.134.

General hygiene considerations

incompatible materials

Hazardous decomposition products

Possibility of Hazardous Polymerization

Do not eat, drink or smoke when using this product. 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 Boiling Point/Range Specific gravity evaporation rate vapor density viscosity Bulk density Percent Volatiles	light tan granular Not Available Not Available Not Available Not Available Not Available No Data Available Not Available	Odor pH Melting Point/Range solubility vapor pressure VOC Content molecular weight Percent Solids	sweet Musty 8.9 9.9 °C / 50 °F 1100 ppm @ 20 C (metribuzin) 1.2 X 10 - 7 mmHg @ 20 C Not Available No Data Available Not Available
	10. Stab	ility and Reactivity	
stability		Stable under normal con	ditions
Conditions to avoid		Sustained temperatures	above 100 F

ketones Aldehydes

None under normal processing

mercaptans

Carbon dioxide (CO2) Oxides of sulfur Amines Methyl

11. Toxicological Information

Acute toxicity

Product information	Acute derma Eye - rabbit = resolving wit Skin effects- In a three we of 40, 200, ar increased ch were increas reversible. T exposed to a meter for 6 h	Acute oral LD50 rat = 2379 mg/kg (male) 2794 mg/kg (female) Acute dermal LD50 rabbit = >5,000 mg/kg Eye - rabbit = Minimal irritation to the conjunctiva was observed with all irritation resolving witin 4 days. Skin effects- rabbit = Not a dermal irritant Metribuzin - In a three week dermal toxicity study, rabbits were treated with metribuzin at doses of 40, 200, and 1000 mg/kg for 6 hr/dy, 5 dys/wk. The high dose evidence of increased cholesterol levels and liver enzyme function was noted. Thyroxine levels were increased at doses of 200 mg/kg and above. All of these effects were slight and reversible. The NOEL was 40 mg/kg. In subacute inhalation studies, rats were exposed to aerosol concentrations of metribuzin ranging from 31 to 745 mg/cubic meter for 6 hr/dy, 5 dys/wk, for 3 weeks. Effects observed included behavioral changes, decreased body weight gains, liver enzyme induction and organ weight effects. The NOEC was 31 mg/cubic meter. Oral LD50 (rat) = 2,194 mg/kg Dermal LD50 (rat) = >5,000 mg/kg Inhalation LC50 (4 hr rat) = 0.709 mg/L				
	effects. The Oral LD50 (ra Dermal LD50	NOEC was 31 mg/cubic at) = 2,194 mg/kg (rat) = >5,000 mg/kg	meter.	on and organ weight		
Chronic toxicity	effects. The Oral LD50 (ra Dermal LD50	NOEC was 31 mg/cubic at) = 2,194 mg/kg (rat) = >5,000 mg/kg	meter.	on and organ weight		
<u>Chronic toxicity</u> Carcinogenicity	effects. The Oral LD50 (ra Dermal LD50 Inhalation LO	NOEC was 31 mg/cubic at) = 2,194 mg/kg (rat) = >5,000 mg/kg	meter.			
	effects. The Oral LD50 (ra Dermal LD50 Inhalation LO	NOEC was 31 mg/cubic at) = 2,194 mg/kg (rat) = >5,000 mg/kg C50 (4 hr rat) = 0.709 mg/l	meter.			

con dioxide	Group 3	

12. Ecological Information

ecotoxicity

Metribuzin - can travel (seep or leach) through soil and can comtaminate ground water which may be used as drinking water.

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. (For plastic containers). Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application requipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. The offer for recycling if avilable or puncture and dipose of in a sanitary landfill, or by incineration, or, if allowed by		

state and local authorities, by burning. If burned, stay out of smoke. (For paper bags). 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
	NOT REGULATED
	NOT REGULATED
IMDG/IMO	NOT REGULATED
TDG	NOT REGULATED

15. Regulatory Information

International Inventories

Chemical name	TSCA	DSL	NDSL	EINECS/ ELINCS	ENCS	China	KECL	AICS
Silicon dioxide		Х			Present	Х	Present	Х
Metribuzin technical				Х		Х	Present	Х

USA

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372:

Chemical name	CAS-No	Weight %	SARA 313 - Threshold Values		
Metribuzin technical	21087-64-9	75	1.0		
SARA 311/312 Hazardous Categor	rization				
Chronic health hazard		NO			
Acute health hazard		yes			
Fire hazard		No			
Sudden release of pressure hazard		No			
Reactive Hazard		No			

Clean Water Act

<u>Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)</u> This product does not contain any HAPs.

CERCLA	
SARA Product RQ	0

RCRA Pesticide Information

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Silicon dioxide 112926-00-8 (1)			Х	

Metribuzin technical		Х	
21001-04-5 (15)			

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
Silicon dioxide	Х	Х	Х		
Metribuzin technical	Х	Х	Х		

International regulations Mexico - Grade

Severe risk, Grade 4

CATEGORY	Carcinogen Status	Exposure limits
		Mexico: TWA 10 mg/m ³
		_
	CATEGORY	CATEGORY Carcinogen Status

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

The preparation is classified as dangerous in accordance with Directive 1999/45/EC

16. Other Information

Revision date

31-Mar-2014

Revision Summary Update section 14

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End of MSDS