



Material Safety Data Sheet

United Phosphorus, Inc.

NFPA	PPE		

Issued Date 17-Apr-2008

Revision Date 04-Jan-2011

Revision Number: 6

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

Vendex 50 WP
70506-211
miticide
12U-177

2. HAZARDS IDENTIFICATION

Emergency Overview

May be fatal if inhaled
Corrosive
Causes irreversible eye damage
Irritating to skin
Harmful if absorbed through skin
Harmful if swallowed

DANGER!

Appearance off-white.

Physical State Powder.

Odor No characterisitic odor.

Potential Health Effects

Eyes

Corrosive to the eyes with corneal or conjunctival ulceration..

Skin

Prolonged or repeated contact may cause irritation, redness and rash..

Inhalation

May cause irritation of the upper respiratory passages. Irritation to the respiratory system may be manifested by cough, discomfort, difficulty breathing, or shortness of breath. .

Ingestion

Harmful if swallowed. Ingestion can result in nausea, headache, or weakness. Ingestion of large amounts may lead to abnormal kidney function. .

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Bis(tris(2-methyl-2-phenylpropyl)tin)oxide	13356-08-6	50	0.1 mg/m ³ Sn_

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.
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
Do not induce vomiting unless told to do so by a poison control center or doctor
Never give anything by mouth to an unconscious person

Notes to Physician

Probable mucosal damage may contraindicate the use of gastric lavage

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

Not applicable

Autoignition Temperature

Not available

Flammability Limits in Air

Not available

Extinguishing Media

Water spray, Foam Dry chemical Carbon dioxide (CO₂).

Fire/Explosion Hazard

This is a powder; therefore there is an increased risk of dust and dust production. Handle with consideration of dust hazards such as dust accumulation and associated fire/explosion hazards.

Hazardous Combustion Products

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.

As with any dry material, pouring this material or allowing it to free fall or be conveyed through chutes or pipes can accumulate and generate electrostatic sparks, potentially causing ignition of the material itself, or any flammable materials which may come into contact with the material or its container. Check that all equipment is properly grounded and installed to satisfy electrical classification requirements. .

NFPA**Health 2****Flammability 1****Instability 0****6. ACCIDENTAL RELEASE MEASURES****Personal Precautions**

Avoid dust formation. Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition.

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 pertinent environmental permits..

Methods for Clean-up

Avoid dust formation. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE**Handling**

Do not eat, drink or smoke when using this product. Avoid dust formation. Avoid breathing dust. Wear personal protective equipment. Wash thoroughly after handling. . Remove and wash contaminated clothing before re-use.

Storage

Keep out of the reach of children. Keep tightly closed in a dry and cool place. Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur. .

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL
Bis(tris(2-methyl-2-phenylpropyl)tin)oxide	0.1 mg/m ³ Sn ₂	0.1 mg/m ³ Sn ₂

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**

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

Skin Protection

Wear protective gloves/clothing.

Respiratory Protection

Avoid breathing dust. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. .

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	off-white	Odor	No characterisitic odor
Physical State	Powder	pH	No data available
Boiling Point/Range	Not available	Melting Point/Range	Not available
Specific Gravity	>1	Solubility	Negligible
Evaporation Rate	Not available	Vapor Pressure	Not available
Vapor Density	Not available	VOC Content	Not available
Viscosity	Not available	Molecular Weight	No data available
Bulk Density	14 lb/cu ft (loose)	Percent Solids	Not available
Percent Volatiles	Not available		

10. STABILITY AND REACTIVITY**Stability**

Stable under recommended storage conditions

Conditions to Avoid

Heat, flames and sparks

Incompatible Materials

No materials to be especially mentioned

Hazardous Decomposition Products

None under normal use

Possibility of Hazardous Polymerization

None under normal processing

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

Vendex-

Acute oral LD50(rat) = >5,000 mg/kg

Dermal LD50 (rat) = >2,000 mg/kg

Inhalation LC50 (rat) = 0.05 mg/L - 4hr

Inhalation LC50 (rat) = 1.7 mg/L - 1hr

Skin irritation = Moderate to severe

Eye irritation = Corrosive

Chronic Toxicity**Carcinogenicity**

Vendex- The information provided below is for the active ingredient:

Based on animal test results, no carcinogenic activity

No genetic damage in bacterial or mammalian cells or in animals.

Tests in some animals indicate the active ingredient may cause developmental and reproductive toxicity but only at levels toxic to the adult animal. .

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Fenbutatin oxide -

96 hr LC50 Bluegill sunfish : 0.0048 mg/L

96 hr LC50 Rainbow trout : 0.0066 mg/L

The product is toxic to birds, mammals, fish and aquatic invertebrates.

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. . Offer for recycling, if available or, dispose of the empty outer foil pouch in the trash as long as WSP is unbroken. .

14. TRANSPORT INFORMATION**DOT****Proper Shipping Name**

Organotin pesticides, solid, toxic (Fenbutatin oxide)

14. TRANSPORT INFORMATION

Hazard Class 6.1
UN-No UN2786
Packing Group PG II
Marine Pollutant: This product contains a chemical which is listed as a severe marine pollutant according to DOT.

ICAO

UN-No UN2786
Proper Shipping Name Organotin pesticides, solid, toxic (Fenbutatin oxide)
Hazard Class 6.1
Packing Group PG II

IATA

UN-No UN2786
Proper Shipping Name Organotin pesticides, solid, toxic (Fenbutatin oxide)
Hazard Class 6.1
Packing Group PG II
ERG Code 6 L

IMDG/IMO

Proper Shipping Name Organotin pesticides, solid, toxic (Fenbutatin oxide)
Hazard Class 6.1
UN-No UN2786
Packing Group PG II
EmS No. F-A, S-A
Special Provisions 61, 274
Marine Pollutant This product contains a chemical which is listed as a severe marine pollutant according to IMDG/IMO

15. REGULATORY INFORMATION**International Inventories**

Bis(tris(2-methyl-2-phenylpropyl)tin)oxide

DSL Listed
EINECS/ELINCS Listed
CHINA Listed
KECL Listed

USA**Federal Regulations**

SARA 313
Y

Chemical Name	CAS-No	Weight %
Bis(tris(2-methyl-2-phenylpropyl)tin)oxide	13356-08-6	50

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

This product does not contain any HAPs.

CERCLARCRAPesticide InformationState 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
Bis(tris(2-methyl-2-phenylpropyl)tin)oxide		Substance no. 2613 Listed. Substance no. 2612 Listed. Substance no. 2614 Listed. Substance no. 2615 Listed.		Listed.	Listed.

International Regulations**Mexico - Grade**

Mexico - Grade

Chemical Name	Category	Carcinogen Status	Exposure Limits
Bis(tris(2-methyl-2-phenylpropyl)tin)oxide			0.1 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**

04-Jan-2011

Revision Summary

Update section 13 Update section 8

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End of MSDS