




Material Safety Data Sheet

United Phosphorus, Inc.

NFPA	PPE		
			

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Revision Number: 3

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 Vendex 50 WP
EPA Reg # 70506-211
Recommended Use miticide
Product Code 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
Autoignition Temperature

Not applicable
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. .

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 characterisitc 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

Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

DOT

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

14. TRANSPORT INFORMATION

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 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
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

20-Nov-2009

Revision Summary

Update section 15

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End of MSDS