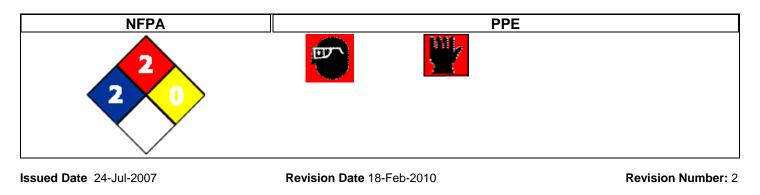


# **United Phosphorus, Inc.**



# **1. PRODUCT AND COMPANY IDENTIFICATION**

**UPI** 630 Freedom Business Center Suite 402 King of Prussia,PA 19406

UPI Company Information

Contact Information Customer Service R&D Technical Service

Product Name EPA Reg # Recommended Use Product Code Tengard SFR One Shot 70506-6 insecticide termiticide 12U-131

2. HAZARDS IDENTIFICATION

Emergency Overview

May cause eye and skin irritation

WARNING! Appearance Amber.

Physical State Liquid.

Odor faint. Mild. petroleum.

**Available Hrs** 

8:00 am to 5:00 pm EST

8:00 am - 5:00 pm (EST)

## **Potential Health Effects**

- Inhalation
- Skin contact
  - Skin

Skin contact may produce skin sensations such as numbing, burning, or tingling. These sensations are reversible within 12 - 24 hours of onset. .

**Emergency Telephone Number** 

Phone Number

1-800-438-6071

610-878-6100

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

Medical: Rocky Mountain Poison Control Center

(866) 673-6671 (24hrs)

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# **Ingredients Name**

Chemical Name	CAS-No	Weight %	OSHA PEL
Triacetin	102-76-1	20-35	N/A
Permethrin technical	52645-53-1	36.8	N/A
Hydrocarbon solvent		>15	1350 mg/m <sup>3</sup> 300 ppm

# 4. FIRST AID MEASURES

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician 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	Treat symptomatically Treatment should include monitoring for the development of hypersensitivity reactions with respiratory distress. For paresthesia, Vitamin E topical application is highly effective.

# **5. FIRE-FIGHTING MEASURES**

## Flammable Explosive Properties

Flash Point Autoignition Temperature	44°C / 111°F Not available
Flammability Limits in Air	Not available
Extnguishing Media	Foam, Carbon dioxide (CO2) Dry chemical.
Fire/Explosion Hazard	Heated material can form flammable and explosive vapors with air. Contain run-off from fire. Keep product and empty container away from heat and sources of ignition Vapors are heavier than air and may travel along 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.

Hazardous Combustion Prod	ucts	Carbon dioxide (CO2), chlorine, Hydrogen chloride.			
NFPA Health 2		Flammability 2			
6. ACCIDENTAL RELEASE MEASURES					
Personal Precautions		ces of ignition. Use personal protective equipment. sure adequate ventilation.	Avoid contact with the skin		
Environmental Precautions	for assistance in requirements liste	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 Do not allow material to contaminate ground water system.			
Methods for Clean-up	(e.g. sand, silica	Remove all ignition sources. Use non-sparking tools . Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal. Ground and bond containers when transferring material.			
	7. HANE	DLING AND STORAGE			
Handling	contact with skin Check that all eq	or smoke when using this product. Remove all so and eyes. Keep away from open flames, hot surfa uipment is properly bonded and grounded Use sp ninated clothing before re-use.	ces and sources of ignition.		
Storage	torage Keep away from open flames, hot surfaces and sources of ignition. Store in an area w cross-contamination with pesticides, fertilizers, food or feed could not occur Store at temperatures above 40 F ( 5 C). If crystals form, warm to room temperature 70 F(21 0 room heating only for 24-48 hours, and shake occasionally until crystals dissolve and appears uniform. Do not use external source of heat for warming containers.				
8.	EXPOSURE CONT	<b>FROLS / PERSONAL PROTECTION</b>			

# **Exposure Guidelines**

[	Chemical Name	ACGIH TLV	OSHA PEL
ſ	Hydrocarbon solvent		1350 mg/m³ 300 ppm

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 Tightly fitting safety goggles.
Skin Protection Respiratory Protection	Impervious gloves. 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. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection. 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 Amber Liquid Not available 1.039 @ 20 C 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 faint Mild petroleum (6% in water)4.9 Not available Emulsifies Not available Not available 1.039 @ 20 C Not available

## **10. STABILITY AND REACTIVITY**

Stability	Stable under recommended storage conditions
Conditions to Avoid	Heat, flames and sparks.
Incompatible Materials	No information available.
Hazardous Decomposition Products	Carbon monoxide. Carbon dioxide (CO2). hydrogen cyanide. chlorine. Hydrogen chloride.
Possibility of Hazardous Polymerization	None under normal processing

# **11. TOXICOLOGICAL INFORMATION**

**Acute Toxicity** 

**Component Information** 

Permethrin - has low mammalian toxicity and virtually no allergic side effects and is not a skin or eve irritant. However, prolonged exposure might result in parathesia (tingling sensation), which is reversible within 12 hours. Exposure to permethrin is via dermal contact and inhalation. In repeat patch tests in humans, dermal applications of permethrin at 1% for up to 9 days did not result in irritation or sensitization. The clinical manifestations of inhalation exposure are confined to the upper respiratory tract and include rhinitis, sneezing, cough, and scratchy throat. Triacetin - is not an irritant or a sensitizer in a clinical maximization study involving humans and only very mild reactions were seen in a test using 50% dilution. While it appears to be innocuous when swallowed, inhaled or in contact with the skin, it may cause slight irritation to sensitive individuals. The dermal LD50 of triacetin in rabbits is >5 g/kg (non-toxic). Triacetin was non-toxic when administered via inhalation or parenterally or in subchronic studies administered via feed or inhalation. Hydrocarbon solvent (Stoddard) - Exposure via inhalation or dermal contact. Humans exposed for 30 minutes to up to 2,400 mg/m<sup>3</sup> of completely vaporized Stoodard solvent had no dose related changes in motor coordination and the exposure level of 2,400 mg/m<sup>3</sup> was considered as the no observed effect level. In a 15 minute period, eye irritation, characterized as a slight dryness, was reported in one of six volunteers at 150 ppm. At 470 ppm (2,700 mg.m3), ocular irritation was reported by all six volunteers. Exposure greater than 525 mg/m<sup>3</sup> have been associated with ocular and dermal irritation, defatting of the skin, and anusea. Acute effects from inhaling large concentrations of Stoddard solvent has been associated with headaches, fatigue, intermittent episodes of inebriation, and memory deficits that generally resolve on discontinuation of exposure. Ingestion of petroleum hydrocarbons are poorly absorbed from the gastrointestinal tract, and do not cause appreciable sysstemic toxicity by this route unless aspiration has occurred.

Chronic Toxicity

Carcinogenicity

Carcinogenicity.

# **12. ECOLOGICAL INFORMATION**

Ecotoxicity

## **12. ECOLOGICAL INFORMATION**

Permethrin

When applied at agricultural use rates, permethrin has a moderate rate of degradation in soil. At termicidal use rates, permethrin degrades as a slower rate which is governed by soil characteristics such as soil type, microbial population, concentration in soil, and aerobis conditions of the soils. Due to its high affinity for organic matter (Koc=86,000), there is little potential for movement in soil or entry into ground water. Permethrin has a Log Pow of 6.1, but a low potential to bioconcentrate (BCF= 500) due to the ease which it is metabolized.

Extremely toxic to fish LC50 = 0.05 ug/L to 315 ug/l Extremely toxic to aquatic arthopods LC50 =0.02 ug/L to 7.6 ug/L

Marine species are often more sensitive than freshwater species. Bacteria, algae, mollusks and amphibians are much more tolerant of permethrin than the fish and arthropods. Care should be taken to avoid contamination of the aquatic environment. Permethrin is slightly toxic to birds and oral LD50 values are greater than 3,600 mg/kg. Longer dietary studies showeed that concentrations of up to 500ppm in the diet had no effect on bird reproduction.

. Permethrin: This product is extremely toxic to fish, aquatic invertabrates, and honeybees. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other bodies of water unless in accordance with the requirements of a National Pollutant discharge Elimination system (NDPES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously motifying the local sewage treatment plant authority. For guidance, contact your State Water Board or the Regional Office of the Environmental Protection Agency.

FISH TOXICITY: Rainbow trout LC50 (96 hr) 2.5 ug/L Bluegill sunfish LC50 (95 HR) 1.8 ug/L

AVIAN TOXICITY Mallard duck LD50 11,275 mg/kg b.w. Japanese guail LD50 23,000 mg/kg b.w..

ERG Code

#### **13. DISPOSAL CONSIDERATIONS** Dispose of in accordance with all applicable federal, state, and local laws and regulations. . Waste Disposal Method **Contaminated Packaging** Empty containers may container hazardous residues. Containers should be handled as instructed by following all container disposal directions. **14. TRANSPORT INFORMATION** DOT Not regulated as per 173.150(f) when shipped by highway in non-bulk (below 119 gallon) containers. ICAO UN-No UN1993 **Proper Shipping Name** Flammable liquid, n.o.s (hydrocarbon solvent) **Hazard Class** 3 **Packing Group** PG III ΙΑΤΑ UN-No UN1993 **Proper Shipping Name** Flammable liquid, n.o.s (hydrocarbon) Hazard Class З **Packing Group** PG III

3L

# **14. TRANSPORT INFORMATION**

## IMDG/IMO

Proper Shipping Name	Flammable liquid, n.o.s	(hydrocarbon)
Hazard Class	3	
UN-No	UN1993	
Packing Group	PG III	
EmS No.	F-E, S-E	

## **15. REGULATORY INFORMATION**

## International Inventories

Triacetin	
DSL	Listed
EINECS/ELINCS	Listed
ENCS	Listed
CHINA	Listed
KECL	Listed
Permethrin technical	
EINECS/ELINCS	Listed
ENCS	Listed
CHINA	Listed
KECL	Listed
Hydrocarbon solvent	
DSL	Listed
EINECS/ELINCS	Listed
CHINA	Listed
KECL	Listed

#### USA

### **Federal Regulations**

## **SARA 313**

Υ

Chemical Name	CAS-No	Weight %
Permethrin technical	52645-53-1	36.8

#### 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

#### 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
Permethrin technical	Listed.				
Hydrocarbon solvent		Substance no. 0206	Listed.		
		Listed.			

### International Regulations

Mexico - Grade

Mexico - Grade

Chemical Name	Category	Carcinogen Status	Exposure Limits
Hydrocarbon solvent		A3	1350 mg/m <sup>3</sup>

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** 

18-Feb-2010

**Revision Summary** Recurrent confirmation/update of data

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End of MSDS