

**Material Safety Data Sheet****SUSPEND® SC INSECTICIDE**

MSDS Number: 102000003167

MSDS Version 2.2

Revision Date: 01/29/2007

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name SUSPEND® SC INSECTICIDE
MSDS Number 102000003167
EPA Registration No. 432-763

Bayer Environmental Science
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)
For Product Information call: 1-800-331-2867

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Deltamethrin	52918-63-5	4.75
1,2-Propanediol	57-55-6	15.20

SECTION 3. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview

Caution! Hazard to humans and domestic animals. Harmful if inhaled. Do not breathe vapours or spray mist. Contact with product may result in transient tingling and reddening of the skin. Remove and wash contaminated clothing before re-use.

Physical State liquid suspension

Odor none

Appearance white

Routes of Exposure Inhalation, Skin contact

Immediate Effects**Skin**

Contact with product may result in transient tingling and reddening of the skin.

Inhalation

Harmful if inhaled. Do not breathe vapours or spray mist.



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Potential Environmental Effect Extremely toxic to fish and aquatic invertebrates.

SECTION 4. FIRST AID MEASURES

General	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Eye	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
Skin	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
Notes to Physician Treatment	There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

SECTION 5. FIRE FIGHTING MEASURES

Flash point	not applicable
Suitable Extinguishing Media	Carbon dioxide (CO ₂), Dry chemical, Foam, Water
Fire Fighting Instructions	<p>Fight fire from upwind position. Evacuate personnel to safe areas. Cool closed containers/ tanks exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.</p> <p>Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.</p>

SECTION 6. ACCIDENTAL RELEASE MEASURES



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Personal Precautions	Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces. In case of spill, leak or emergency, use a NIOSH approved chemical cartridge-type respirator.
Methods for Cleaning Up	Dike area to prevent runoff. Collect and transfer the product into a properly labelled and tightly closed container. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Decontaminate tools and equipment following cleanup.
Additional Advice	Isolate area. Contaminated soil may have to be removed and disposed.

SECTION 7. HANDLING AND STORAGE

Handling Procedures	Avoid contact with skin, eyes and clothing. Handle and open container in a manner as to prevent spillage. Smoking, eating and drinking should be prohibited in the application area.
Storing Procedures	Store in original container. Do not contaminate water, food, or feed by storage or disposal. Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed.
Work/Hygienic Procedures	Handle in accordance with good industrial hygiene and safety practice. Recommendations for exposure control/personal protection are intended for the manufacture, formulation and packaging of the product. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove and wash contaminated clothing before re-use.
Min/Max Storage Temperatures	no data available

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection	Train employees in safe use of the product. Eye wash facility and safety shower should be available. Follow all label instructions.
Engineering Controls	Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.
Eye/Face Protection	Chemical resistant goggles must be worn.
Hand Protection	Chemical-resistant gloves made of waterproof material such as neoprene, butyl rubber, barrier laminate or nitrile rubber.
Respiratory Protection	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the

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appropriate regulatory standards and/or industry recommendations.

Exposure Limits

Pyrogenic (fumed) amorphous silica	112945-52-5	Z3	TWA	20 millions of particles per cubic foot of air 0.8 mg/m3 The value is calculated from a specified equation using a value of 100%. Values lower than 100% will give higher exposure limits. See regulation for specific equation.
		Z3 Remarks	TWA	
1,2-Propanediol	57-55-6	WEEL Form of exposure	TWA	10 mg/m3 Aerosol.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white
Physical State	liquid suspension
Odor	none
pH	6.6 suspension in water ≤ 7.0 (100 %) at 20 °C
Specific Gravity	1.05 at 20 °C
Density	approx. 1.053 g/cm ³ at 20 °C
Boiling Point	no data available
Melting / Freezing Point	no data available
Water solubility	immiscible
Minimum Ignition Energy	no data available
Viscosity	165 mPa.s at 20 °C

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Incompatibility	Strong oxidizing agents



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strong reducing agents

Hazardous

Decomposition Products

Thermal decomposition can lead to release of:
Carbon monoxide
Carbon dioxide (CO₂)

SECTION 11. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been conducted on this product as formulated. The non-acute information pertains to the active ingredient, deltamethrin technical.

Acute Oral Toxicity male/female combined rat: LD50: > 15,000 mg/kg

Acute Dermal Toxicity male/female combined rabbit: LD50: > 10,000 mg/kg

Acute Inhalation Toxicity male/female combined rat: LC50: > 1.02 mg/l
Exposure time: 4 h
Determined in the form of a respirable aerosol.
(actual)

male/female combined rat: > 4.08 mg/l
Exposure time: 1 h
Determined in the form of a respirable aerosol.
Extrapolated from the 4 hr LC50.
(actual)

Skin Irritation rabbit: No skin irritation.

Eye Irritation rabbit: No eye irritation.

Sensitization guinea pig: Non-sensitizing.

Chronic Toxicity Deltamethrin caused neurobehavioral effects (e.g., tremors) in chronic toxicity studies in rats and dogs.

Assessment Carcinogenicity

Deltamethrin was not carcinogenic in lifetime feeding studies in rats and mice.

ACGIH

None.

NTP

None.

IARC

Deltamethrin

52918-63-5

Overall evaluation: 3

OSHA

None.

Reproductive & Developmental Toxicity

REPRODUCTION: Deltamethrin was not a reproductive toxicant in multi-generation reproduction studies in rats.



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DEVELOPMENTAL TOXICITY: Deltamethrin was not a primary developmental toxicant in developmental toxicity studies in rats and rabbits. Developmental effects (e.g., delayed ossifications) were observed in rabbits at the high-dose but were considered secondary to maternal toxicity.

Neurotoxicity Deltamethrin caused neurobehavioral effects (e.g., tremors) without correlating neuropathological changes in acute and subchronic neurotoxicity screening studies in rats.

Mutagenicity Deltamethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity to Fish Oncorhynchus mykiss (rainbow trout)
LC50: 0.00026 mg/l
Exposure time: 96 h

Bluegill sunfish
LC50: 0.00017 mg/l
Exposure time: 96 h

Acute Toxicity to Aquatic Invertebrates Eastern Oyster
LC50: 0.0082 mg/l
Exposure time: 96 h

Mysidopsis bahia (mysid shrimp)
LC50: 0.000001 mg/l
Exposure time: 96 h

Toxicity to other organisms Bobwhite quail
LD50: > 2,250 mg/kg

Bobwhite quail
LC50: > 5,620 ppm

Mallard duck
LC50: 8,039 ppm

Stability in water Half life: 55 - 65 h
pH: 9.0

Bioaccumulation Bluegill sunfish BCF: 189 - 3,930



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Environmental Precautions

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. For guidance, contact your State Water Board or Regional Office of the EPA. Retain and dispose of contaminated wash water.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance

Do not contaminate water, food, or feed by disposal. Dispose in accordance with all local, state/provincial and federal regulations.

Follow advice on product label and/or leaflet. If these wastes cannot be disposed of by use 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.

Container Disposal

Triple rinse containers. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke.

SECTION 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not DOT regulated

NOTE: For transport purposes (49 CFR Part 173.132), the calculated 1-Hour LC50 (Rat) is: 4.08 mg/l.

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 432-763

US Federal Regulations

TSCA list

1,2-Propanediol

57-55-6

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

US States Regulatory Reporting

CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.



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US State Right-To-Know Ingredients

1,2-Propanediol	57-55-6	MN, RI
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Canadian Regulations

Canadian Domestic Substance List

1,2-Propanediol	57-55-6
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Environmental

CERCLA

None.

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

International Regulations

European Inventory of Existing Commercial Substances (EINECS)

Deltamethrin	52918-63-5
1,2-Propanediol	57-55-6

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 0 Reactivity - 0 Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: Updated for general editorial purposes.

Revision Date: 01/29/2007

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TENGARD SFR ONE SHOT

Revision: 4

Date Issued: 6/15/06

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company: United Phosphorus, Inc.
423 Riverview Plaza
Trenton, NJ 08611
Product Information: 1-800-247-1557 or www.upi-usa.com
Product Name: TENGARD SFR ONE SHOT TERMITICIDE/INSECTICIDE
Product Use: Termiticide/Insecticide

FOR MEDICAL EMERGENCIES, contact the National Pesticide Information Center at 1-800-858-7378
FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

<u>CHEMICAL NAME</u>	<u>CAS#</u>	<u>WT. %</u>	<u>TWA, ppm</u>
Permethrin	52645-53-1	36.8	None
Hydrocarbon Solvent	8052-41-3	26.0	100 (OSHA)
Triacetin	102-76-1	25.9	None
Surfactant Blend	None	<10.0	None
Component of product ingredients include:			
1,2,4-trimethylbenzene	95-63-6	<4.0	25 (OSHA)
Ethylbenzene	100-41-4	<0.03	100 (OSHA)
Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.			

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance and Odor Amber liquid with faint mild petroleum odor.
Routes of Exposure Mist inhalation, skin contact
Immediate Effects Effects from overexposure result from ingestion or coming into contact with the skin or eyes. Symptoms of overexposure include increased hypersensitivity to touch and sound, tremors and convulsions. Contact with permethrin may produce skin sensations such as numbing, burning or tingling. These skin sensations are reversible and usually subside within 12 hours.
Medical Conditions
Aggravated by Exposure None known

SECTION 4 FIRST AID MEASURES

Have the product container with you when calling a poison control center or doctor, or going for treatment.

IF SWALLOWED:

Immediately call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING:

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES:

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth to mouth if possible. Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN

Reversible skin sensations (paresthesia) may occur and ordinary skin salves have been found useful in reducing discomfort. Contains aromatic hydrocarbons that may produce a severe pneumonitis if aspirated during vomiting. Consideration should be given to

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gastric lavage with an endotracheal tube in place. Treatment is otherwise controlled by removal of exposure followed by symptomatic and supportive care.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT	44 °C (111 °F)
EXTINGUISHING MEDIA	Foam, CO ₂ or dry chemical. Soft stream water fog only if necessary. Contain all runoff.
FIRE/EXPLOSION HAZARDS	Moderately combustible. When heated above the flash point, this material releases vapors which, when mixed with air, can burn or be explosive.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon monoxide and/or carbon dioxide. Chlorine and hydrogen chloride may be formed.
FIRE FIGHTING PROCEDURES	Isolate fire area. Evacuate downwind. Wear full protective clothing and self contained breathing apparatus. Do not breathe smoke, gases or vapors generated.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed in Section 8 "Exposure Controls/Personal Protection". Keep unprotected persons and animals out of the area. Keep material out of lakes, streams, ponds and sewers drains. Dike to confine spill and absorb with an absorbent such as clay, sand or soil. Vacuum, shovel or pump waste into a drum and label contents for disposal.

To clean and neutralize spill area, tools and equipment, wash with a suitable solution of bleach or caustic/soda ash and an appropriate alcohol (methanol, ethanol or isopropanol). Follow this by washing with a strong soap and water solution. Absorb as above, any excess liquid and add to the drums of waste already collected. Repeat if necessary. Dispose of drummed waste according to the method outlined in Section 13 "Disposal Considerations".

SECTION 7 HANDLING AND STORAGE

HANDLING AND STORAGE PROCEDURES	Store in a cool, dry, well-ventilated place. Do not use or store near heat, open flame or hot surfaces. Store in original containers only. Store at temperatures above 40 °F (5 °C). If crystals form, warm to room temperature 70 °F (21 °C) by room heating only for 24-48 hours, and shake occasionally until crystals dissolve and product appears uniform. Do not use external source of heat for warming container. Keep out of reach of children and animals. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.
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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS	Use local exhaust at all process locations where vapor or mist may be emitted. Ventilate all transport vehicles prior to unloading.
EYES/FACE PROTECTION	For splash, mist or spray exposure, wear chemical protective goggles or a face shield.
RESPIRATORY PROTECTION	For splash, mist or spray exposure, wear, as a minimum, a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides (U.S. NIOSH/MSHA, EU CEN or comparable certification organization). Respirator use and selection must be based on airborne concentrations.
PROTECTIVE CLOTHING	Depending upon concentrations encountered, wear coveralls or long sleeved uniform and head covering. For larger exposures as in the case of spills, wear full body covered barrier suit, such as a PVC suit. Leather items- such as shoes, belts and watch bands – that become contaminated should be removed and destroyed. Launder all work clothing before reuse (separately from household laundry).
GLOVES	Wear chemical protective gloves such as barrier laminate or butyl rubber. Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.
WORK HYGIENIC PRACTICES	Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking or using tobacco. Shower at the end of the workday.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

ODOR	Faint mild petroleum odor
APPEARANCE	Amber liquid
SOLUBILITY IN WATER	Emulsifies
pH	4.8-5.0 at 20 °C (6% in water)
SPECIFIC GRAVITY	1.039 at 20 °C
WEIGHT PER VOLUME	8.65 lbs./gal.

SECTION 10 STABILITY AND REACTIVITY

CHEMICAL STABILITY	Stable
CONDITIONS TO AVOID	Excessive heat and fire
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon monoxides, carbon dioxide, hydrogen cyanide, chlorine and hydrogen chloride
POLYMERIZATION	Will not occur

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE DERMAL LD ₅₀	>2000 mg/kg (rabbit)
ACUTE ORAL LD ₅₀	1030 mg/kg (rat)
ACUTE INHALATION LC ₅₀	>2.05 mg/L/4 hrs (rat)
EYE IRRITATION	moderately irritating
DERMAL IRRITATION	moderately irritating
DERMAL SENSITIZATION	not a sensitizer

ACUTE EFFECTS FROM OVEREXPOSURE

This product has low oral, dermal and inhalation toxicity. It is moderately irritating to the skin and eyes. Experience to date indicates that contact with permethrin has rarely produced skin sensations such as numbing, burning or tingling. These skin sensations are reversible and usually subside within 12 hours. Large, toxic doses of permethrin administered to laboratory animals have produced symptoms such as diarrhea, salivation, tremors, intermittent convulsions. Overexposure to animals via inhalation has also produced hyperactivity and hypersensitivity. Exposure to aromatic hydrocarbons can irritate the skin. Vomiting after ingestion of this product may cause aspiration of aromatic hydrocarbons into the lungs that may result in fatal pulmonary edema.

CHRONIC EFFECTS FROM OVEREXPOSURE

No data available for TENGARD ONE SHOT Insecticide. In studies with laboratory animals, permethrin did not cause reproductive toxicity or teratogenicity. Analysis of chronic feeding studies in both mice and rats with permethrin resulted in the conclusion that permethrin's potential for induction of oncogenicity in experimental animals is low and that the likelihood of oncogenic effects in humans is nonexistent or extremely low. Long term feeding studies in animals resulted in increased liver and kidney weights, induction of the liver microsomal drug metabolizing enzyme system, and histopathological changes in the lungs and liver. An overall absence of genotoxicity has been demonstrated in mutagenicity testing with permethrin. Prolonged and/or repeated skin contact to aromatic hydrocarbons may cause dermatitis. High concentration of aromatic hydrocarbon vapors may be irritating to eyes and respiratory system and act as an anesthetic.

CARCINOGENICITY	IARC	Not listed
	NTP	Not listed
	OSHA	Not listed
	OTHER (ACGIH)	Not listed

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SECTION 12 ECOLOGICAL INFORMATION

Unless indicated, the information presented below is for the active ingredient, permethrin.

PHYSICAL/ ENVIRONMENTAL PROPERTIES

In soil, permethrin is stable over a wide range of pH values. When applied at agricultural use rates, permethrin has a moderate rate of degradation in soil. At termiticidal use rates, permethrin degrades at a slower rate which is governed by soil characteristics such as soil type, microbial population, concentration in soil and aerobic conditions of soils. Due to its high affinity for organic matter ($K_{oc}=86,000$), there is little potential for movement in soil or entry into ground water. Permethrin has a $\log P_{ow}$ of 6.1, but a low potential to bioconcentrate ($BCF = 500$) due to the ease with which it is metabolized.

ECOTOXICOLOGICAL INFORMATION

Permethrin is extremely toxic to fish ($LC_{50} = 0.5 \mu\text{g/L}$ to $315 \mu\text{g/L}$) and aquatic arthropods ($LC_{50} = 0.02 \mu\text{g/L}$ to $7.6 \mu\text{g/L}$). Marine species are often more sensitive than the 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 LD_{50} values are greater than 3600 mg/kg . Longer dietary studies showed that concentrations of up to 500 ppm in the diet had no effect on bird reproduction.

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSAL METHOD

Open dumping or burning of this material or its packaging is prohibited. If spilled material cannot be disposed of by use according to instructions, an acceptable method of disposal is to incinerate in accordance with local, state and national environmental laws, rules, standards and regulations. However, because acceptable methods of disposal may vary by location and regulatory requirements may change, the appropriate agencies should be contacted prior to disposal.

EMPTY CONTAINER

Non-returnable containers which held this material should be cleaned prior to disposal, by triple rinsing. Containers which held this material may be cleaned by being triple rinsed, and recycled, with rinsate being incinerated. Do not cut or weld metal containers. Vapors that form may create an explosion hazard.

SECTION 14 TRANSPORT INFORMATION

U.S. DOT (Department of Transportation)

Regulated only when shipped in containers 119 gallons or more.

PROPER SHIPPING NAME:

flammable liquids, n.o.s. (hydrocarbon solvent, 1,2,4-trimethylbenzene)

HAZARD CLASS:

3

UN/NA NUMBER:

UN1993

PACKING GROUP:

III

SECTION 15 REGULATORY INFORMATION

SARA Title III (Superfund Amendments and Reauthorization Act)

Section 302 Extremely Hazardous Substances (40CFR 355)

Not listed

Section 302.4 Reportable Quantity (RQ) (40CFR 355)

None

Section 311 Hazard Categories (40 CFR 370)

Immediate, Delayed, Fire

Section 312 Threshold Planning Quantity (40 CFR 370)

The threshold planning

quantity (TPQ) for this product, if treated as a mixture, is $10,000 \text{ lb.}$ This product contains the following ingredients with a TPQ of less than $10,000 \text{ lb.}$: None

Section 313 (40 CFR 372)

This product contains the following

ingredients subject to Section 313 reporting requirements: (permethrin) (1,2,4-trimethylbenzene) (hydrocarbon solvent) (ethylbenzene)

CERCLA Reportable Quantity (RQ) (40 CFR Table 302.4)

Not listed

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SECTION 16 OTHER INFORMATION

NFPA Hazard Ratings

Health	1
Flammability	2
Instability	0

THIS INFORMATION IN THIS MSDS IS BASED ON DATA AVAILABLE AS OF THE REVISION DATE GIVEN HEREIN, AND BELIEVED TO BE CORRECT. CONTACT UNITED PHOSPHORUS, INC. TO CONFIRM IF YOU HAVE THE MOST CURRENT MSDS. JUDGMENTS AS TO THE SUITABILITY OF THE INFORMATION HEREIN FOR THE INDIVIDUAL'S OWN USE OR PURPOSES IS NECESSARILY THE INDIVIDUAL'S OWN RESPONSIBILITY. ALTHOUGH REASONABLE CARE HAS BEEN TAKEN IN THE PREPARATION OF SUCH INFORMATION, UNITED PHOSPHORUS, INC. EXTENDS NO WARRANTIES, MAKES NO REPRESENTATIONS, AND ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OR SUITABILITY OF SUCH INFORMATION FOR APPLICATION TO THE INDIVIDUAL'S PURPOSES OR THE CONSEQUENCES OF ITS USE.

This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to and accompanying the product container). This MSDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Revision 4 6/15/06 replaces Version 3 10/12/04. Reason for revision: add acute toxicity values, correct shipping information, correct % active ingredient.