



TIDE INTERNATIONAL USA, INC.

—A DIVISION OF TIDE GROUP

MAIN OFFICE : 21 HUBBLE, IRVINE, CA 92618, USA

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Material Safety Data Sheet (MSDS)

MSDS# TIC-FUN8422911

Date: 03/01/2011

Section 1 - Product Chemical and Company Identification

Product name: Tide Propiconazole 41.8%EC
Product Use: Fungicide
Company: Tide International USA, Inc.
EPA Reg. No.: 84229-11
Emergency phone: Chemtrec 1-800-424-9300
Tide International USA, Inc. 1-949-679-3535

Section 2 - Composition /Information on Ingredients

Active Ingredient	CAS number	w/w %
Propiconazole	60207-90-1	41.8 min.
Other ingredients		58.2 max.

Section 3 - Hazards Identification

Emergency overview

WARNING:

Causes substantial but temporary eye injury. Do not get in eyes, on skin, or on clothing. Harmful if swallowed, inhaled, or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid breathing spray mist.

Section 4 - First Aid Measures

If poisoning occurs, immediately contact a doctor or Poisons Information Centre, and follow the advice given. Show this Material Safety Data Sheet to the doctor.

If in eyes: 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 poison control center or doctor for treatment advice.

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 swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

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



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or doctor for further treatment advices.

Note to physician: There is no specific antidote. Treat symptomatically. This compound does not cause any definite symptoms that would be diagnostic. Poisoning is accompanied by hyperactivity followed by sedation.

Section 5 - Fire Fighting Measures

Unusual Fire, Explosion and Reactivity Hazards

This product forms flammable mixtures with air at temperatures above 110°F (43°C).

Combustible liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distant ignition sources and flash back.

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Foam, Water Spray, Dry chemical, and CO₂.

Fire Fighting Instructions: Use appropriate extinguishing media for combustibles in the area. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

Section 6 - Accidental Release Measures

Clean up spills immediately. Keep unnecessary and unprotected personnel from entering.

Warning - flammable vapors may be present. Eliminate sources of ignition and ventilate spill area. Use non-sparking clean-up equipment to prevent vapor ignition.

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions in Protective Equipment Section. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

Section 7- Handling and Storage

Handling

Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Wash clothing after use. USERS SHOULD: Wash hands before eating, drinking, chewing,



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gum, using tobacco or using the toilet.

Do not store or consume food or drink, or use tobacco, in areas where they may become contaminated with this material.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

Storage

Store in a cool, dry place away from food, drink and animal feeding stuffs. Store in original container and out of reach of children, preferable in a locked storage area. Prevent cross-contamination with other pesticides and fertilizers. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. If product spills or container leaks, carefully sweep and collect material into a pile. Follow directions 13 for disposal.

Section 8 - Exposure Controls/Personal Protection

No special exposure limit has been conducted for this product by any known relative agencies.

Engineering Controls:

Use only with adequate ventilation.

Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on the EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate or viton
- Shoes plus socks
- Protective eyewear

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Section 9 - Physical and Chemical Properties

Form: Liquid

Color: Yellow with a gardner color of 9

Odor: A pungent odor



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pH Value: 4.0~7.0

Specific Gravity: 1.07±0.01

Section 10 - Stability and Reactivity

Stability: Stable under normal use and storage conditions.

Incompatibility with Other Materials: None reasonably foreseeable.

Polymerization: Will not occur.

Conditions to avoid: Keep away from the incompatibility materials.

Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases.

Section 11 - Toxicological Information (Based on Technical Propiconazole)

Acute Oral LD₅₀: 985 mg/kg for female rat

Acute Dermal LD₅₀: > 5,050 mg/kg for rabbit

Acute inhalation LC₅₀: > 2.20 mg/L (4h) for rat.

Skin irritation: Slightly irritation (rabbit), Toxicity Category IV (rabbit)

Eye irritation: Mildly irritation to eyes, Toxicity Category II (rabbit)

Sensitization: No sensitization (guinea pig).

Carcinogenic potential: Not carcinogenic (rat)

Mutagenic Potential: Not Mutagenic

Reproductive Toxicity: Not teratogenic in animal experiments

Section 12 - Ecological Information (Based on Technical Propiconazole)

LC₅₀ (96 h): 12.15 mg/l for rainbow trout (96h)

EC₅₀: 42.85 mg/l for daphnia magna (48h).

This product is toxic to fish and shrimp. Do not apply directly to water, or to areas where surface water is present, or to inter-tidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwater or rinsate.

Section 13 - Disposal Considerations

PESTICIDE DISPOSAL: Pesticide wastes may be toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. 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.



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CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) 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 the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Section 14 - Transport Information

Transport Classification – Sea (IMDG):

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard Class or Division: Class 3

Identification Number: UN 1993

Packing Group: PG III

Additional Information: PROPICONAZOLE 41.8%

Section 15 - Regulatory Information

EPCRA SARA Title III Classification

Section 311/312 Hazard Classes: Acute Health Hazard

Chronic Health Hazard

Fire Hazard

Section 313 Toxic Chemicals: Propiconazole (41.8%) (CAS No. 60207-90-1)

California Proposition 65 : Not Applicable

CERCLA/SARA 302 Reportable Quantity (RQ) : NA

RCRA Hazardous Waste Classification (40 CFR 261): Ignitable D001

TSCA Status: Exempt from TSCA, subject to FIFRA

Section 16 - Other Information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. Tide International USA, Inc. assumes no responsibility for results obtained or for incidental or consequential damages arising from the use of these data.