

MATERIAL SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Shield-Brite[®] Penbotec 400 SC

Company: Pace International, LLC

Address: Office Manufacturing / Distribution

1201 3rd Avenue, Suite 5450

5661 Branch Road

Seattle, WA 98101

Wapato, WA 98951

Emergency Phone Number: 800.424.9300 (CHEMTREC)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

CAS #	Component	%	Exposure Limits
53112-28-0	pyrimethanil (4,6-dimethyl-N-phenyl-2-pyrimidinamine)	37.14	N/A

Other Components

proprietary

3. HAZARDS IDENTIFICATION

Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

4. FIRST AID MEASURES

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. 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If on Skin: 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 Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Powder, foam, CO₂, or water spray. Do not use direct jet of water.

Special Exposure Hazards: None

Special Protective Equipment for Firefighters: Wear self-contained breathing equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: See Section 8 for personal protection measures.

Environmental Precautions: Soak up spilled material with adsorptive material such as sand or sawdust. Prevent product from spreading by damming in with absorptive material. Wash the contaminated area thoroughly with water. Do not allow the washwater to run off into any sewer, stream, well or pond, and if necessary, soak up with more absorbent material. Collect material in marked, tightly closed containers. Dispose of wastes in a manner approved by local authorities.

Methods for Cleaning Up: See Section 13 for disposal recommendations.



7. HANDLING & STORAGE

- Handling:** Users should wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. If pesticide gets in clothing/PPE, remove immediately, wash thoroughly, and put on clean clothing. Wash the outside of gloves before removing.
- Storage:** Do not contaminate water, food, or feed by storage or disposal. Store in original container in a cool, dry place. Do not use or store near open flames. Stable in original container at room temperature. Protect from direct sunlight. Homogenize before use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Protective Clothing:** Wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves (such as Natural Rubber, Selection Category A).
- Respiratory Protection:** No specific respiratory protection required. Always avoid breathing spray mist.
- Eye & Skin Protection:** PENBOTEC 400 SC is non-irritating to eyes, however, it is always recommended to wear protective eyewear such as safety glasses when handling concentrated pesticides. Eye fountain and washing facilities in the work area is recommended.

9. PHYSICAL & CHEMICAL PROPERTIES

- Appearance:** White to beige suspension
- Odor:** Faint, non-specific odor
- Boiling Point:** No data available
- Flash Point:** Not applicable
- Flammable Limits:** Not applicable
- Explosive Properties:** No data available
- Oxidizing Properties:** No oxidizing properties
- Vapor Pressure:** No data available
- pH:** 4.06
- Density (at 20°C):** 1.078 g/ml
- Solubility in Water:** Miscible
- Viscosity:** 91 mPa.s to 991 mPa.s (20°C)
53 mPa.s to 307 mPa.s (40°C)
- Suspensibility:** 99%
- Spontaneity of Dispersion:** 93%

10. STABILITY & REACTIVITY

- Conditions/Materials to Avoid:** heat, sparks, flame, strong oxidants, strong acids and acid halogenides.
- Hazardous Decomposition Products:** No data available

11. TOXICOLOGICAL INFORMATION

- Acute Oral:** LD₅₀ oral (rat): > 2000 mg/kg
- Acute Dermal:** LD₅₀ dermal (rat): > 2000 mg/kg
- Inhalation:** LC₅₀: > 0.98 mg/L
- Eye Irritation:** Non-irritating
- Skin Irritation:** Non-irritating
- Sensitization:** Mild skin sensitizer (guinea pig) in the Magnusson and Kligman maximization test.

12. ECOLOGICAL INFORMATION

- For technical grade pyrimethanil:**
- Daphnia magna, acute toxicity: EC₅₀ (48h): 2.9 mg/L
- Rainbow trout, acute toxicity: LC₅₀ (96h): 10.56 mg/L
- Algae, inhibitory effect
- Selenastrum capricornutum*: IC₅₀ (96h): 1.2 mg/L



Birds (duck & quail), acute oral toxicity: LD₅₀ > 2000 mg/kg

Bees, acute oral toxicity: 100 µg/bee

Bees, acute contact toxicity: 100 µg/bee

This product is toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. Do not contaminate water, food or feed by storage or disposal. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment, or disposal of wastes.

13. DISPOSAL CONSIDERATIONS

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. Do not reuse or refill the 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. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (pyrimethanil)
Hazard Class:	9
UN Number:	UN 3082
Packing Group:	III

15. REGULATORY INFORMATION

FIFRA:	This product is registered with the U.S. EPA under registration number 43813-32-64864.
SARA 313:	Contains no chemicals subject to SARA Title III Section 313 in quantities sufficient to trigger reporting requirements.
TSCA:	All components of this product are included or exempt from inclusion in EPA's Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
WHMIS:	This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

HMIS Ratings: Health – 1 Flammability – 0 Reactivity – 0

The information herein is believed to be accurate and represents the best information currently available. However, Pace International LLC makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and assumes no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

MSDS Revision Date: 08/23/11

Supersedes: 12/17/09

