

**SAFETY DATA SHEET**

**1. PRODUCT & COMPANY IDENTIFICATION**

<b>Product Name:</b>	Shield-Brite <sup>®</sup> PYR 40% SC	<b>EPA Reg# 64864-79</b>
<b>Product Code:</b>	10586	
<b>Product Use:</b>	For postharvest use on citrus, pome and stone fruit crop groups.	
<b>Product Restrictions:</b>	For Agriculture Use Only	
<b>Manufacturer/Importer/Supplier/Distributor information</b>		
<b>Manufacturer:</b>	Pace International, LLC	
<b>Address:</b>	5661 Branch Road, Wapato, WA 98951	
<b>Phone Number:</b>	800-936-6750 (Monday-Friday, 7:00 a.m. – 4:00 p.m.)	
<b>Medical Emergency Phone Number:</b>	888-271-4649 (PROPHARMA)	
<b>Transportation Emergency Phone Number:</b>	800-424-9300 (CHEMTREC)	

**2. HAZARDS IDENTIFICATION**

GHS Classification in accordance with 29 CFR 1910 (2012 OSHA Hazard Communication Standard)  
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification:**

**Physical Hazards**  
Flammable liquid, Category 4  
**Health Hazards**  
Acute Toxicity, inhalation - Category 4  
Serious eye damage / eye irritation, Category 2A  
Sensitization, Skin – Category 1  
**Environmental Hazards**  
Not classified

**Hazard Symbols:**



**Signal Word:**  
WARNING

**Hazard Statements:**

H227 Combustible liquid.  
H332 Harmful if inhaled.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.

**Other Hazards:**

**Hazard(s) not otherwise classified (HNOC):**  
**Supplemental information**

**Precautionary Statements:**

**Prevention Statements:**

P210 Keep away from heat / hot surfaces / sparks / open flames / and other ignition sources. No smoking.  
P280 Wear protective clothing, chemical resistant gloves, and safety glasses. Fogging applicators must have access to a NIOSH-approved full-face respirator with organic vapor filter.  
P264 Wash hands thoroughly after handling.  
P261 Avoid breathing mist, vapors or sprays.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.

**Response Statements:**

P370/378 In case of fire: Use dry chemical, CO<sub>2</sub> to extinguish.  
P302/352 IF ON SKIN: Wash with plenty of soap and water.  
P332/313 If skin irritation occurs: Get medical advice/attention.  
P321 Specific treatment see Section 4 First Aid Measures.  
P362/364 Take off contaminated clothing and wash it before reuse.  
P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337/313 If eye irritation persists: Get medical advice/attention.  
P304/340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P312 Call a POISON CENTER/doctor if you feel unwell.

**Storage Statements:**

P403/233/235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.  
P405 Store locked up.

**Disposal Statements:**

P501 Dispose of contents/container should be made in accordance with applicable regional, national and local laws and regulations.  
None known.  
None known.

This is a registered EPA product. The product labeling is in compliance with EPA regulations and guidelines.  
US: Exempt - EPA Reg. # 64864-79



### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Mixture**

**Chemical name**

**CAS #**

**%**

Pyrimethanil:

53112-28-0

37.14

4,6-dimethyl-N-phenyl-2-pyrimidinamine

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. FIRST AID MEASURES

**General Advice:**

Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician or going for treatment. You may also contact PROPHARMA 1-888-271-4649 for emergency medical treatment information.

**Skin contact:**

IF ON SKIN OR CLOTHING: Take off immediately all contaminated clothing. Wash skin with plenty of soap and water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**Eye contact:**

IF IN EYES: Hold eye open and cautiously rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses if present and easy to do after the first 5 minutes, then continue rinsing eye. Get medical advice/attention.

**Ingestion:**

IF SWALLOWED: Immediately call a POISON CENTER or doctor for medical advice. 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.

**Inhalation:**

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

**Most important**

**Symptoms / effects, acute and**

**Delayed:**

**Indication of any immediate medical attention and special treatment needed:**

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician or going for treatment.

If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

### 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:**

Water fog. Foam. Dry chemical powder. Carbon dioxide.

**Unsuitable Extinguishing Media:**

Do not use water jet as an extinguisher, as this will spread the fire.

**Special Hazards Arising from the**

The product is combustible, and heating may generate vapors

**Chemical:**

which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters:**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Firefighting**

In case of fire and/or explosion do not breathe fumes. Move

**equipment/instructions:**

containers from fire area if you can do so without risk.

**Specific methods:**

Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards:**

Combustible liquid.

**Hazardous combustion products:**

May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Ventilate closed spaces before entering them. Local



**Methods and materials for containment and cleaning up:**

authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Avoid entering waterways, sewers, basements or confined areas.

**Large Spills:** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

**Small Spills:** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.

**Environmental Precautions:**

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

DO NOT discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters.

**7. HANDLING & STORAGE**

**Precautions for Safe Handling:**

Keep away from heat / hot surfaces / sparks / open flames / and other ignition sources. Do not get in eyes, on skin or clothing. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke when using this product.

**CONTAINER HANDLING:** Non-refillable 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. 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.

**Conditions for Safe Storage, including any Incompatibilities:**

Store locked up. Keep away from heat/sparks/open flames. Store in a cool, dry, well-ventilated area away from direct sunlight. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

**PESTICIDE STORAGE:** Store in locked location. Keep in original container. Keep container tightly closed. Store in a dry and cool area.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Occupational Exposure Limits**

No exposure limits noted for the ingredient(s).

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines**

**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Wear chemical goggles, safety glasses or face shield.

**Skin protection**

**Hand protection**

Chemical-resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber, or butyl rubber

**Other**

Mixers, loaders, applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber, or butyl



**Respiratory protection**

rubber, shoes and socks, protective eyewear (such as goggles, safety glasses, or a face shield).

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134)

**Thermal hazards**

Not applicable.

**General hygiene considerations**

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace. When using do not eat or drink

**9. PHYSICAL & CHEMICAL PROPERTIES**

<b>Physical state:</b>	Liquid	<b>Upper/Lower flammability limits:</b>	Not available
<b>Appearance / Color:</b>	Off white	<b>Vapor pressure:</b>	Not available
<b>Odor:</b>	Sweet, fruity	<b>Vapor density: (air =1)</b>	Not available
<b>Odor threshold:</b>	Not available	<b>Specific Gravity: (H<sub>2</sub>O = 1)</b>	1.02
<b>pH:</b>	5.78	<b>Solubility:</b>	Miscible
<b>Melting/Freezing point:</b>	Not available	<b>Partition coefficient (n-octanol-water):</b>	Not available
<b>Pour Point:</b>	Not available	<b>Auto-ignition temperature:</b>	Not available
<b>Initial boiling point and boiling range:</b>	Not available	<b>Decomposition temperature:</b>	Not available
<b>Flash point:</b>	>154.8°F(68.2°C) Closed cup method	<b>Viscosity:</b>	Not available
<b>Evaporation rate:</b>	Not available	<b>Explosive properties:</b>	Not explosive
<b>Flammability (solid, gas):</b>	Not applicable	<b>Oxidizing properties:</b>	Not oxidizing

**10. STABILITY & REACTIVITY**

<b>Reactivity hazards:</b>	This product may react with strong oxidizing agents.
<b>Possibility of Hazardous Reactions:</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical stability:</b>	Material is stable under normal conditions.
<b>Conditions to avoid:</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Do not mix with other chemicals.
<b>Incompatible materials:</b>	Strong oxidizing agents.
<b>Hazardous decomposition products:</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

**11. TOXICOLOGICAL INFORMATION**

<b>Routes of exposure</b>	Eye, Skin contact, Inhalation, Ingestion.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting.
<b>Inhalation</b>	Harmful if inhaled.
<b>Skin contact</b>	Slightly irritating to the skin based on test data. A sensitizing response of faint to moderate was noted in the test results.
<b>Eye contact</b>	Moderately irritating to the eye based on test data.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.
<b>Information on toxicological effects</b>	

**Acute toxicity**

Product	Species	Test Results
Shield-Brite®-PYR 40% SC (CAS # 64864-79)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	>2000 mg/kg, Tested
<b>Inhalation</b>		
LC50	Rat	>2.15 mg/1/4h, Tested
<b>Oral</b>		
LD50	Rat	>2000 mg/kg, Tested



Pyrimethanil: 4,6-dimethyl-N-phenyl-2-pyrimidinamine (CAS 53112-28-0)

<b>Acute</b>	
<i>Dermal</i>	
LD50	Not available
<i>Inhalation</i>	
LC50	Rat > 5000 mg/kg Sigma Aldrich
<i>Oral</i>	
LD50	Rat 4150 - 5971 mg/kg, Sigma Aldrich
<b>Skin corrosion/irritation:</b>	Slightly irritating to the skin based on test data.
<b>Exposure minutes</b>	Not available
<b>Erythema value</b>	Not available
<b>Oedema value</b>	Not available
<b>Serious eye damage/eye Irritation:</b>	Moderately irritating to the eye based on test data.
<b>Corneal opacity value</b>	Not available
<b>Iris lesion value</b>	Not available
<b>Conjunctival reddening value</b>	Not available
<b>Conjunctival oedema value</b>	Not available
<b>Recover days</b>	Not available
<b>Respiratory sensitization:</b>	Not a respiratory sensitizer.
<b>Skin sensitization:</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity:</b>	Not available
<b>Carcinogenicity:</b>	See below.
<b>US. California Proposition 65 – CRT: Listed date/ Carcinogenic substance</b>	Ethylbenzene (CAS# 100-41-4)
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)</b>	Not listed.
<b>Reproductive toxicity:</b>	This product is not expected to cause reproductive or developmental effects.
<b>Teratogenicity:</b>	Not available.
<b>Specific target organ toxicity - single exposure:</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure:</b>	Not classified.
<b>Aspiration hazard:</b>	Material does not present an aspiration hazard.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	This pesticide is toxic to fish and aquatic invertebrates.  Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters 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. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. No data is available on the degradability of this product.
<b>Persistence/ degradability:</b>	
<b>Bioaccumulative potential</b>	
<b>Mobility in soil:</b>	No data available.
<b>Mobility in general:</b>	Not available.
<b>Other adverse effects:</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal instructions:</b>	Do not contaminate water, food, or feed by storage or disposal. PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.  Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code:</b>	This material, in its original form and concentration, would designate as a D001 federal hazardous waste for ignitability when disposed.



**Waste from residues / unused products:** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging:** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Before taking the container to the collection site:

#### 14. TRANSPORT INFORMATION

##### Transport of Dangerous Goods (TDG) Proof of Classification



<b>UN number:</b>	UN3082
<b>Proper shipping name:</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Technical name:</b>	Pyrimethanil
<b>Hazard class(es):</b>	9
<b>Packing group:</b>	III
<b>Marine Pollutant:</b>	IMDG Regulated Marine Pollutant.

Classification method: Classified according to Part 2, sections 2.1-2.8 of the Regulations for the transport of dangerous goods. If applicable, the technical name and product classification will appear below.

##### DOT

#### 15. REGULATORY INFORMATION

##### US FEDERAL REGULATIONS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

EPA Reg. # 64864-79

KEEP OUT OF THE REACH OF CHILDREN.

CAUTION:

PRECAUTIONARY STATEMENTS:

Hazard to humans and domestic animals.

CAUTION: 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. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

##### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

##### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

##### SARA 304 Emergency release notification

Not regulated.

##### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

##### Superfund Amendments and Reauthorization Act of 1986 (SARA)

<b>SARA 302 Extremely hazardous substance</b>	No
<b>SARA 311/312 Hazardous chemical</b>	Yes
<b>Classified hazard</b>	Flammable (gases, aerosols, liquids, or solids)
<b>Categories</b>	Acute toxicity (any route of exposure) Serious eye damage or eye irritation



Respiratory or skin sensitization  
Not regulated.

**SARA 313 (TRI reporting)**

**OTHER FEDERAL REGULATIONS**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**US STATE REGULATIONS**

**US. California Proposition 65**



**WARNING:** This product can expose you to Ethylbenzene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Ethylbenzene (CAS# 100-41-4) Listed: June 11, 2004

**Inventory status**

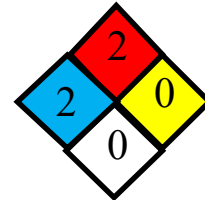
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**16. OTHER INFORMATION**

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>2</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<b>X</b>



The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, to the extent consistent with applicable law, Pace International, LLC and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, to the extent consistent with applicable law, neither Pace International, LLC nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. Except to the extent a particular use and particular information are expressly stated on the product label, it is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Pace International, LLC) to confirm that you have the most current product label and SDS.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS 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 as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.

**SDS preparation date:** October 20, 2021  
**Changes since last revision:** New

**Replaces SDS dated:** ---  
**Version:** 1

