

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: PacRite[®] Kphos **EPA# 42519-32-64864**
Product Code: 10378
Product Use: A Systemic Fungicide for PostHarvest Treatment of Citrus
Supplier: Pace International, LLC
Address: 5661 Branch Road, Wapato, WA 98951
Phone Number: 800-936-6750 (Monday-Friday, 7:00 a.m. – 4:00 p.m.)
Medical Emergency Phone Number: 888-271-4649 (PROSAR)
Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)

2. HAZARDS IDENTIFICATION

Classification: Acute Dermal, Category 5
Hazard Symbols:
Hazard Statements: WARNING
H313 May be harmful in contact with skin
Precautionary Statements:
Response Statements: P312 Call a POISON CENTER or doctor if you feel unwell.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Ingredient</u> | <u>CAS #</u> | <u>Concentration (w/w %)</u> |
|---------------------|--------------|------------------------------|
| Potassium Phosphite | 13977-65-6 | 54.5% |
| Phosphorous acid | 13492-26-7 | 45.5% |

4. FIRST AID MEASURES

General: Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician, or going for treatment.
Advice:
If on Skin: Take off contaminated clothing. Wash skin with plenty of soap and water 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 the first 5 minutes, then continue rinsing eye. Get medical advice/attention.
If Swallowed: Call a poison control center or doctor 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 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.
Physician: No significant health effects known, or anticipated, by any route of exposure when exposed to the product as shipped. No specific antidote. In the event of adverse response, treatment should be directed toward control of the symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Dry chemical, CO₂, alcohol-resistant foam or water spray. Move containers from fire area if you can do it without risk. Dike fire control water for later disposal; do not scatter the material.
Special Exposure Hazards: Hazardous combustion products: Phosphorous oxides.
Special Protective Equipment / Procedures for Firefighters: Clear fire area of all non-emergency personnel. Stay upwind of fire. Wear protective clothing and self-contained breathing apparatus (SCBA) with positive pressure.



6. ACCIDENTAL RELEASE MEASURES

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| Personal Precautions: | Wear protective clothing, chemical resistant gloves, and safety glasses. |
| Environmental Precautions: | In case of spill isolate area and deny entry to unnecessary personnel. Keep children and domestic animals off treated areas. Do not allow product to enter sewers, lakes, streams or other bodies of water. |
| Containment / Clean-Up Methods: | Stop spill at the source. Construct temporary dikes of dirt, sand, or other appropriate material to prevent spreading of the material. Cover the spill area with a 1:1 mixture of vermiculite and solid calcium oxide (the amount of the mixture should be at least double the size of the spill). Place reclaimed product in a closed and properly labeled waste drum. Store drum in separate area until proper disposal. Flush residue with water. Wash thoroughly after handling. |

7. HANDLING & STORAGE

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| Handling: | Avoid contact with skin and eyes. Keep away from excessive heat, open flames and from strong oxidizing agents. Good standards of hygiene should be maintained at all times. Smoking, eating, and drinking are prohibited in the work area. For personal protection wear protective clothing, chemical resistant gloves, and safety glasses. |
| Storage: | Store in a cool, dry area at room temperature, keep away from heat, sparks and open flames. Keep container tightly closed when not in use in well ventilated area. Keep out of reach of children and livestock. Keep away from food, drink and animal feed. Separate from chlorates, nitrates and other oxidizing materials. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| Occupational Exposure Limits: | No Occupational Exposure Limits (OELs) have been established for this product. |
| Engineering Controls: | Local exhaust ventilation maybe necessary to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces. |
| Personal Protective Equipment : | Clothing: Wear protective clothing and chemical resistant gloves when handling. Eye Protection: Wear safety glasses. Eye fountain and washing facilities should be present at work area. Respiratory Protection: Not normally required. A NIOSH-approved respirator with organic vapor filter may be used in misty environments without proper ventilation. |



9. PHYSICAL & CHEMICAL PROPERTIES

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| Physical state: | Liquid | Upper/Lower flammability limits: | Not available |
| Appearance: | Transparent liquid, Colorless | Vapor pressure: | Not available |
| Odor: | Odorless | Vapor density: (air =1) | Not available |
| Odor threshold: | Not available | Specific Gravity: (H₂O = 1) | 1.45-1.49 g/ml @ 20°C |
| pH: | 6.0 – 7.01 | Solubility: | Miscible in water |
| Melting/Freezing point: | Not available | Partition coefficient (n-octanol-water): | Not available |
| Boiling point: | >212°F (100°C) | Auto-ignition temperature: | Not available |
| Flash point: | >100°C | Decomposition temperature: | Not available |
| Evaporation rate: | Not available | Viscosity: | 5.81 cSt (@ 20°C) 3.36 cSt (@ 40°C) |
| Flammability (solid, gas): | Not applicable | | |

10. STABILITY & REACTIVITY

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| Reactivity hazards: | Will react with strong oxidizers and strong reducers. |
| Chemical stability: | Stable at ambient conditions |
| Conditions to avoid: | Keep away from excessive heat, open flames and strong oxidizing agents. |
| Incompatible materials: | Strong oxidizers like potassium permanganate and strong reducers like zinc powder. |
| Hazardous decomposition products: | None known. |



11. TOXICOLOGICAL INFORMATION

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| Acute toxicity: | Acute Oral: | LD ₅₀ (estimate): > 5000 mg/kg | Based on Ingredients |
| | Acute Dermal: | LD ₅₀ (estimate): > 2000 mg/kg | Based on Ingredients |
| | Inhalation: | LC ₅₀ (estimate): > 5.05 mg/L | Based on Ingredients |
| Skin corrosion/irritation: | Non-irritating. | | |
| Eye damage/irritation: | Non-irritating. | | |
| Respiratory/Skin sensitization: | Maybe harmful with prolonged and repeated exposure to skin. | | |
| Germ cell mutagenicity: | No mutagenic potential. | | |
| Carcinogenicity: | No carcinogenic effects listed with NTP, OSHA, or IARC. | | |
| Reproductive toxicity: | No primary embryo toxic or teratogenic effects. | | |
| Target organ effects: | No known target organ effects. | | |
| Aspiration hazard: | Material does not present an aspiration hazard. | | |
| Potential health effects: | None known. | | |

12. ECOLOGICAL INFORMATION

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| Toxicity Birds: | Northern bobwhite | LD ₅₀ | >2250 mg a.i./kg |
| | Northern bobwhite dietary | LC ₅₀ (5d) | >5620 mg a.i./kg |
| | Mallard ducks dietary | LC ₅₀ (5d) | >5620 mg a.i./kg |
| Toxicity Fish: | Rainbow trout | LC ₅₀ (96hrs) | > 118 mg a.i./L |
| Toxicity Crustacean: | Daphnia magna | EC ₅₀ (48hrs) | > 118 mg a.i./L |
| Toxicity Honeybees: | | LD ₅₀ oral (48hrs) | > 145 µg/bee |
| | | LD ₅₀ contact (48hrs) | > 207 µg/bee |
| Persistence/ degradability: | Not readily biodegradable | | |
| Bioaccumulative potential: | No Bioaccumulative potential | | |
| Mobility in soil: | Medium to low mobility in soil. | | |
| Other adverse effects: | Not available | | |

13. DISPOSAL CONSIDERATIONS

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| Disposal methods: | Recover or recycle if possible. Do not discharge into sewers, lakes, streams, or other bodies of water. Disposal should be made in accordance with applicable regional, national and local laws and regulations. Consult appropriate regulatory officials for information on disposal, keeping in mind that local regulations may be more stringent than regional or national requirements. |
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14. TRANSPORT INFORMATION

| | <u>DOT</u> | <u>IMDG</u> | <u>IATA</u> |
|------------------------------|----------------|----------------|----------------|
| UN number: | Not applicable | Not applicable | Not applicable |
| Proper shipping name: | Not regulated | Not regulated | Not regulated |
| Hazard class(es): | Not applicable | Not applicable | Not applicable |
| Packing group: | Not applicable | Not applicable | Not applicable |
| Marine Pollutant: | Not applicable | | |
| Special precautions: | None | | |

15. REGULATORY INFORMATION

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| FIFRA: | This product is registered with the U.S. EPA under registration number 42519-32-64864. |
| 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 SDS contains all of the information required by the CPR. |



16. OTHER INFORMATION

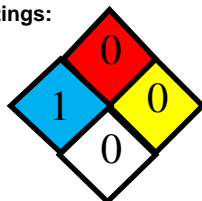
HMIS Ratings:

Health – 1

Flammability – 0

Reactivity – 0

NFPA Ratings:



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This Safety Data Sheet (SDS) may provide more information than the product label but does not replace or modify the product labeling (attached to and accompanying the product container). The product SDS and the product label both provide consistent and important health, safety, and environmental information as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). This requirement covers employers, employees, emergency responders, users and others handling the product. All necessary hazard classification and appropriate precautionary, use, storage, and disposal information is set forth on the labeling and the SDS.

SDS preparation date: November 12, 2015

Replaces MSDS dated: June 01, 2011

Changes since last New format to SDS

revision:

