

## SAFETY DATA SHEET

### 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** PacRite<sup>®</sup> Citric Acid 50%  
**Product Code:** 10152  
**Product Use:** pH Buffer  
**Product**  
**Restrictions:** None Known  
**Manufacturer:** 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 (PROPHARMA/PROSAR)  
**Transportation Emergency Phone Number:** 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, CORROSIVE, Category 1  
Acute Dermal, Category 5  
Skin irritation, Category 2  
Eye irritation, Category 2A  
Specific Target Organ Toxicity, single exposure, Category 3

**Hazard Symbols:**



**Signal Word:**

WARNING

**Hazard Statements:**

H290 May be corrosive to metals.  
H313 May be harmful in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

**Other Hazards:**

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

**Precautionary Statements:**

**Prevention Statements:**

P234 Keep only in original container.  
P264 Wash hands thoroughly after handling.  
P280 Wear protective clothing, chemical resistant gloves, and safety glasses.  
P261 Avoid breathing fume, gas, mist, vapours or spray.  
P271 Use only outdoors or in a well-ventilated area.

**Response Statements:**

P390 Absorb spillage to prevent material damage.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P302/352 IF ON SKIN: Wash with plenty of soap and water.  
P321 Specific Treatment see Section 4 First Aid Measures.  
P332/313 If skin irritation occurs: Get medical advice/attention.  
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 person to fresh air and keep comfortable for breathing.  
P312 Call a POISON CENTER/doctor if you feel unwell.

**Storage Statements:**

P406 Store in corrosive resistant container with a resistant inner liner.  
P403/233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

**Disposal Statements:**

P501 Dispose of contents/container in accordance with applicable regional, national and local laws and regulations.

Not applicable.

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>	<u>Concentration (w/w %)</u>
Citric Acid	77-92-9	50%
Other ingredients*		balance

\*Other Ingredients not identified are trade secrets and non-hazardous.



#### 4. FIRST AID MEASURES

<b>General Advice:</b>	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 (PROSAR) 1-888-271-4649 for emergency medical treatment information.
<b>If on Skin:</b>	Take off contaminated clothing. Wash skin with plenty of soap and water for 15-20 minutes. If redness, burning, persistent irritation, or you feel unwell call a POISON CENTER/doctor. Wash contaminated clothing before reuse.
<b>If in Eyes:</b>	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. If eye irritation persists: Get medical advice/attention.
<b>If Ingested:</b>	Rinse mouth. 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. Call a poison control center or doctor for treatment advice.
<b>If Inhaled:</b>	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
<b>Most important Symptoms / effects, acute and delayed</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
<b>Indication of any immediate medical attention and special treatment needed:</b>	Treat patient symptomatically.

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#### 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Carbon dioxide. Water spray. Dry chemical. Foam.
<b>Unsuitable Extinguishing Media:</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Special Hazards Arising from the Chemical:</b>	May include and are not limited to: Oxides of carbon.
<b>Special Protective Equipment / Procedures for Firefighters:</b>	Use NIOSH approved self-contained breathing apparatus and full protective clothing including eye protection and boots. Keep upwind. If possible, remove containers exposed to heat or cool with water. Do not scatter spilled material with high pressure water streams. Contain and isolate runoff and debris for proper disposal (see Section 13 of the SDS).

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#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions, Protective Equipment and Emergency procedures:</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection,(see section 8 of the SDS).
<b>Environmental Precautions: Containment / Clean-Up Methods:</b>	Do not discharge into lakes, streams, ponds or public waters. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Never return spills in original containers for re-use. Following Product recovery, flush area with water. Clean surface thoroughly to remove residual contamination. Prevent entry into waterways, sewers, basements or confined areas. For waste disposal, see section 13 of the SDS.



## 7. HANDLING & STORAGE

<b>Handling:</b>	<p>Do not get in eyes, on skin or on clothing.  Wear appropriate personal protective equipment (see Section 8).  Avoid breathing vapors or mists of this product.  Use only with adequate ventilation.  Observe good industrial hygiene practices.  Wash thoroughly after handling.  Eating, drinking and smoking in work areas is prohibited.  Remove contaminated clothing and protective equipment before entering eating areas.</p>
<b>Storage:</b>	<p>Keep in original container that is properly labelled. Store in a cool, dry area at room temperature, away from direct sunlight. Store in corrosive resistant container with a resistant inner liner. Keep container tightly closed and upright when not in use. Keep out of reach of children and livestock. Store in locked location.</p>

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Occupational Exposure Limits:</b>	<p>Citric Acid CAS# 77-92-9  ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.</p>
<b>Engineering Controls:</b>	<p>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. Eye wash fountain and washing facilities should be present at work area.</p>
<b>Personal Protective Equipment :</b>	<p><b>Eye/face Protection:</b> Wear safety glasses.  <b>Skin Protection:</b> Wear protective clothing (long sleeved shirt, pants, and shoes).  <b>Hand Protection:</b> Wear nitrile, neoprene, vinyl(PVC), or rubber gloves.  <b>Respiratory Protection:</b> Not normally required. A NIOSH-approved respirator with an acid gas / organic vapor cartridge may be used in environments without proper ventilation.  <b>Hygiene Control:</b> Good standards of hygiene should be maintained at all times. Smoking, eating, and drinking are prohibited in the work area. Wash thoroughly after handling.</p>

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Physical state:</b>	Clear liquid	<b>Upper/Lower flammability or exposure limits:</b>	Not available
<b>Appearance / Color:</b>	Odorless	<b>Vapor pressure:</b>	16 mm Hg
<b>Odor:</b>	Not available	<b>Vapor density: (air =1)</b>	0.62
<b>Odor threshold:</b>	Not available	<b>Specific Gravity: (H<sub>2</sub>O = 1)</b>	1.24
<b>pH:</b>	0.8	<b>Solubility:</b>	Miscible with water
<b>Melting/Freezing point:</b>	23°F (-5°C)	<b>Partition coefficient (n-octanol-water):</b>	Not available
<b>Initial boiling point and boiling range:</b>	219°F (103.89°C)	<b>Auto-ignition temperature:</b>	Not available
<b>Flash point:</b>	Not flammable	<b>Decomposition temperature:</b>	Not available
<b>Evaporation rate:</b>	0.33	<b>Viscosity:</b>	Not available
<b>Flammability (solid, gas):</b>	Not applicable	<b>Explosive Properties:</b>	Not explosive
		<b>Oxidizing Properties:</b>	Not oxidizing

## 10. STABILITY & REACTIVITY

<b>Reactivity hazards:</b>	May react with incompatible materials.
<b>Chemical stability:</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions:</b>	None known.
<b>Hazardous Polymerization:</b>	Does not occur.
<b>Conditions to avoid:</b>	Do not mix with other chemicals.
<b>Incompatible materials:</b>	Strong oxidizing agents. Reducing agents. Caustics. Metal nitrates.
<b>Hazardous decomposition products:</b>	May include and are not limited to: Oxides of carbon.



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**11. TOXICOLOGICAL INFORMATION**

<b>Acute toxicity:</b>	<b>Acute Oral:</b>	LD <sub>50</sub> (estimate): > 5000 mg/kg	Based on Ingredients
	<b>Acute Dermal:</b>	LD <sub>50</sub> (estimate): > 2000 mg/kg	Based on Ingredients
	<b>Inhalation:</b>	LC <sub>50</sub> (estimate): > 20 mg/L	Based on Ingredients
<b>Routes of Exposure:</b>	Eye, skin contact, inhalation, ingestion.		
<b>Skin corrosion/irritation:</b>	Causes skin irritation.		
<b>Eye damage/irritation:</b>	Causes serious eye irritation.		
<b>Respiratory/Skin sensitization:</b>	Can cause respiratory irritation.		
<b>Germ cell mutagenicity:</b>	Not available		
<b>Carcinogenicity:</b>			
<b>OSHA:</b>	US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.		
<b>Reproductive toxicity:</b>	This product is not expected to cause reproductive or developmental effects. Non-hazardous by WHMIS/OSHA criteria.		
<b>STOT – Single exposure</b>	No known target organ effects.		
<b>Specific Target Organ Toxicity – Repeated exposure</b>	No known target organ effects due to repeated exposure.		
<b>Aspiration hazard:</b>	Material does not present an aspiration hazard.		
<b>Potential health effects:</b>	CORROSIVE: May cause skin, eye, and lung irritation.		

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**12. ECOLOGICAL INFORMATION**

<b>Toxicity:</b>	Citric Acid	CAS# 77-92-9	
<b>Acute:</b>	Crustacea	EC50 Daphnia magna	120 mg/L, 72 hr
<b>Aquatic Acute:</b>	Fish	LC50 Bluegill (Lepomis macrochirus)	1516 mg/L, 96 hr
<b>Persistence/ degradability:</b>	No data is available on the degradability of this product.		
<b>Bioaccumulative potential:</b>	Not available		
<b>Mobility in soil:</b>	Not available		
<b>Results of PBT and vPvB Assessment</b>	PBT/vPvB assessment not available as chemical safety assessment not required / not conducted.		
<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.		

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**13. DISPOSAL CONSIDERATIONS**

<b>Disposal methods:</b>	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**

	<b><u>DOT</u></b>	<b><u>TDG</u></b>
<b>UN number:</b>	UN3265	UN3265
<b>Proper shipping name:</b>	Corrosive liquid, acidic, organic, n.o.s.	Corrosive liquid, acidic, organic, n.o.s.
<b>Technical Name:</b>	Citric Acid	Citric Acid
<b>Hazard class(es):</b>	8	8
<b>Packing group:</b>	III	III
<b>Special Provisions:</b>	A6, B10, T14, TP2, TP27	16
<b>Packaging Exceptions:</b>	None	
<b>Packaging Non Bulk</b>	201	
<b>Packaging Bulk</b>	243	

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**15. REGULATORY INFORMATION**

**US FEDERAL REGULATIONS** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**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.

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

Not regulated.

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

Not listed.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)** Hazard Categories

Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

No

**SARA 311/312 Hazardous chemical**

No

**SARA 313 (TRI reporting)**

Not regulated.

**US STATE REGULATIONS** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. See below

**US - California Hazardous Substances (Director's):**

Citric acid (CAS 77-92-9) No

**US - Illinois Chemical Safety Act:**

Citric acid (CAS 77-92-9) No

**US - Louisiana Spill Reporting: Listed substance**

Citric acid (CAS 77-92-9) No

**US - Minnesota Haz Subs: Listed substance**

Citric acid (CAS 77-92-9) No

**US - New Jersey RTK - Substances: Listed substance**

Citric acid (CAS 77-92-9) No

**US - Texas Effects Screening Levels: Listed substance**

Citric acid (CAS 77-92-9) Listed.

**US. Massachusetts RTK - Substance List**

Citric acid (CAS 77-92-9) No

**US. Pennsylvania RTK - Hazardous Substances**

Citric acid (CAS 77-92-9) No

**US. Rhode Island RTK**

Citric acid (CAS 77-92-9) No

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**Inventory status**

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

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



## 16. OTHER INFORMATION

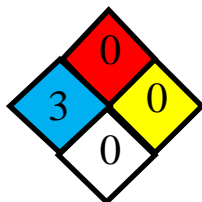
HMIS Ratings:

Health – 3

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:** May 10, 2017

**Replaces MSDS dated:** March 14, 2017

**Changes since last** Section 8, 14, 15

**revision:**

**Version:** 4

