

## 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  
Skin irritation, Category 2  
Eye irritation, Category 2A

**Hazard Symbols:**



**Signal Word:**  
WARNING

**Hazard Statements:**  
H290 May be corrosive to metals.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

**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.

**Response Statements:**

P390 Absorb spillage to prevent material damage.  
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.

**Storage Statements:**

P406 Store in corrosive resistant container with a resistant inner liner.

**Disposal Statements:**

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

**Other Hazards:** None known.  
**Hazard(s) not otherwise classified (HNOC):** 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

**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 (PROSAR) 1-888-271-4649 for emergency medical treatment information.

**If on Skin:** Take off immediately all contaminated clothing. Wash before reuse. Wash skin with plenty of soap and water/shower. If skin irritation: Get medical advice/attention.

**If in Eyes:** Hold eye open and rinse cautiously with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes if easy to do, 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.

## 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>	Not available.
<b>Special protective equipment and precautions 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). Cool containers with flooding quantities of water until well after fire is out.
<b>Fire-fighting equipment/instructions:</b>	
<b>Specific methods:</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>Hazardous combustion products:</b>	May include and are not limited to: Oxides of carbon.

## 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. 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>	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.
<b>Storage:</b>	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.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Occupational Exposure Limits:</b>	No exposure limits noted for ingredients.
<b>Biological Limit Values:</b>	No biological exposure limits noted for the ingredients.
<b>Exposure Guidelines:</b>	Chemicals listed in Section 3 that are not listed here do not have established limit values for ACGIH
<b>Appropriate engineering controls:</b>	Ensure adequate ventilation.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection:</b>	Wear safety glasses.
<b>Skin protection</b>	
<b>Hand protection:</b>	Wear nitrile, neoprene, vinyl (PVC), or rubber gloves.
<b>Other:</b>	Wear protective clothing (long sleeved shirt, pants, and shoes).
<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>Thermal hazards:</b>	Not applicable.
<b>General hygiene considerations:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke.

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid	<b>Upper/Lower flammability or exposure limits:</b>	Not available
<b>Appearance / Color:</b>	Clear	<b>Vapor pressure:</b>	16 mm Hg
<b>Odor:</b>	Odorless	<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>Possibility of Hazardous Reactions:</b>	Hazardous polymerization does not occur.
<b>Chemical stability:</b>	Stable under recommended storage conditions.
<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.

## 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>	No adverse effects due to inhalation are expected.
<b>Skin corrosion / irritation:</b>	Causes skin irritation.
<b>Eye damage / irritation:</b>	Causes serious eye irritation.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation. Skin irritation. May cause redness and pain.



**Information on toxicological effects**

**Acute toxicity** May cause severe skin burns and eye damage. May cause an allergic skin reaction.

Components	Species	Test Results
Citric Acid (CAS 77-92-9)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg, 24 Hours, ECHA
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Mouse	5400 mg/kg, ECHA 5040 mg/kg, HSDB
	Rat	11700 mg/kg, ECHA 6730 mg/kg, HSDB

**Skin corrosion/irritation:** Causes skin irritation.

**Serious eye damage/eye irritation:** Causes serious eye irritation.

**Irritation:**

**Respiratory sensitization:** Not a respiratory sensitizer.

**Skin sensitization:** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity:** Not classified.

**Carcinogenicity:** Not classified.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**  
Not listed.

**Reproductive toxicity:** This product is not expected to cause reproductive or developmental effects. Non-hazardous by WHMIS/OSHA criteria.

**Teratogenicity:** Non-hazardous by WHMIS/OSHA criteria.

**Specific target organ toxicity -**  
**single exposure:** Not classified.

**Specific target organ toxicity -**  
**repeated exposure:** Not classified.

**Aspiration hazard:** Material does not present an aspiration hazard.

**Chronic effects:** Not classified.

**12. ECOLOGICAL INFORMATION**

Ecotoxicity	See below		
Ecotoxicological data	Species		Test Results
Components			
Citric Acid (CAS 77-92-9)			
<i>Acute</i>			
Crustacea	EC50	Water flea (Daphnia magna)	120 mg/L, 72 hour
<i>Aquatic</i>			
Fish	LC50	Bluegill (Lepomis macrochirus)	1516 mg/L, 96 hour
<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>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**

**Disposal instructions:** Nonrefillable container. Do not reuse or refill empty container. Triple rinse (or equivalent) during mixing and loading. Recycling decontaminated containers is the best option of container disposal. Decontaminated and punctured containers may also be disposed of in a sanitary land fill. Spills 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.

**Hazardous waste code** D002: Waste Corrosive material [pH <=2 or >=12.5, or corrosive to steel]  
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.



<b>Waste from residues / unused products</b>	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).
<b>Contaminated packaging</b>	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.

#### 14. TRANSPORT INFORMATION

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

#### 15. REGULATORY INFORMATION

<b>US FEDERAL REGULATIONS</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
<b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List</b>		Not regulated.
<b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)</b>		Not regulated.
<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>		Not regulated.
<b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>		Not listed.
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>		Not listed.
<b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b>	Hazard Categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
<b>SARA 302 Extremely hazardous substance</b>		No
<b>SARA 311/312 Hazardous chemical</b>		No
<b>SARA 313 (TRI reporting)</b>		Not regulated.
<b>US STATE REGULATIONS</b>	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. See below	
<b>US - California Hazardous Substances (Director's):</b>	Citric acid (CAS 77-92-9)	No
<b>US - Illinois Chemical Safety Act:</b>	Citric acid (CAS 77-92-9)	No
<b>US - Louisiana Spill Reporting: Listed substance</b>	Citric acid (CAS 77-92-9)	No
<b>US - Minnesota Haz Subs: Listed substance</b>	Citric acid (CAS 77-92-9)	No
<b>US - New Jersey RTK - Substances: Listed substance</b>	Citric acid (CAS 77-92-9)	No
<b>US - Texas Effects Screening Levels: Listed substance</b>	Citric acid (CAS 77-92-9)	Listed
<b>US. Massachusetts RTK - Substance List</b>	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**

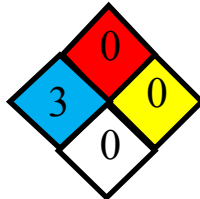
**HMIS Ratings:**

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:** June 11, 2019

**Replaces SDS dated:** June 16, 2017

**Changes since last revision:** Section 4,9,12,13 minor corrections

**Version:** 6

