

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** Citric Acid 50%  
**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
77-92-9	citric acid	50	Not established

#### Other Components

proprietary

### 3. HAZARDS IDENTIFICATION

Can cause eye and skin irritation. Inhaling vapor or mist may irritate respiratory tract. Swallowing small amounts is not expected to be harmful, but may cause stomach upset, nausea or diarrhea.

### 4. FIRST AID MEASURES

**If on Skin:** Take off contaminated clothing. Wash skin with soap and water. If symptoms persist, call a poison control center or doctor for treatment advice. Wash clothing before reuse.

**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. Call a poison control center or doctor for treatment advice.

**If Swallowed:** Call a poison control center or doctor for treatment 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.

**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:** Water fog, dry chemical or carbon dioxide (CO<sub>2</sub>).

**Special Exposure Hazards:** None known.

**Special Protective Equipment for Firefighters:** Use NIOSH approved respirator with acid type canister or wear self-contained breathing equipment.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** See Section 8 for personal protection measures.

**Methods for Cleaning Up:** Small spills may be absorbed with an inert material such as sand or vermiculite and placed in an appropriate container for disposal. Large spills should be diked to prevent spreading and pumped into a salvage tank.



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## 7. HANDLING & STORAGE

- Handling:** Good standards of hygiene should be maintained at all times. For personal protection measures, see section 8.
- Storage:** Store in a cool, dry area at room temperature. Keep container tightly closed when not in use.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Protective Clothing:** Wear impervious clothing and chemical resistant gloves such as neoprene, nitrile rubber or PVC when handling.
- Respiratory Protection:** Not normally required. A NIOSH-approved respirator is recommended in misty environments.
- Eye Protection:** Chemical goggles or full face shield are recommended. Eye fountain and washing facilities should be present at work area.

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## 9. PHYSICAL & CHEMICAL PROPERTIES

- Appearance:** Clear liquid
- Odor:** little to no odor
- Boiling Point:** 212 - 219°F (100 - 104°C)
- Freezing Point:** No data available
- Flash Point:** Not flammable
- Flammable Limits:** Not applicable
- Explosive Properties:** No data available
- Vapor Pressure:** 21.9 mmHg @ 77°F
- pH (@ 25°C):** acidic
- Specific Gravity:** 1.24 (H<sub>2</sub>O=1)
- Solubility in Water:** soluble

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## 10. STABILITY & REACTIVITY

- Conditions/Materials to Avoid:** Hypochlorites, strong oxidizers, caustics, zinc, aluminum, mild steel.
- Hazardous Decomposition Products:** Heating to decomposition will produce carbon dioxide and carbon monoxide.

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## 11. TOXICOLOGICAL INFORMATION

- Acute Oral:** LD<sub>50</sub> oral (rat): 11.7 g/kg

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## 12. ECOLOGICAL INFORMATION

Citric acid is toxic to fish and other aquatic organisms in high concentrations due to low pH.

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## 13. DISPOSAL CONSIDERATIONS

Dispose of unused product or spill clean-up materials by incineration in accordance with applicable federal, state and local regulations.

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## 14. TRANSPORT INFORMATION

Not regulated for transport.

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## 15. REGULATORY INFORMATION

- 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.



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**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:** 12/09/09

**Supersedes:** 05/17/07

