



# Safety Data Sheet (SDS)

Replacement Parts Industries, Inc.

## RPI Sterilizer Cleaner

SDS Number: 586

Revision Date: 4/25/2016

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### 1 PRODUCT AND COMPANY IDENTIFICATION

#### Manufacturer

Replacement Parts Industries, Inc.  
20338 Corisco Street  
Chatsworth, CA 91311

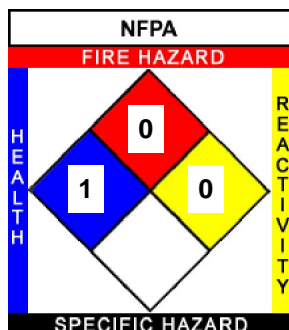
**Contact:** Replacement Parts Industries, Inc.  
**Phone:** (800) 221-9723 // (818) 882-8611  
**Fax:** (818) 882-7028  
**Web:** www.rpiparts.com

**Product Name:** RPI Sterilizer Cleaner  
**Revision Date:** 4/25/2016  
**Version:** 1.0  
**SDS Number:** 586  
**Common Name:** Organic salts  
**CAS Number:** MIXTURE  
**Product Code:** RPI-1a  
**Chemical Family:** Organic salts  
**Synonyms:** None  
**Product Use:** Mild acid sterilization cleaner.  
**Emergency Phone:** (800) 221-9723

### 2 HAZARDS IDENTIFICATION

NFPA:  
HMIS III:

Health = 1, Fire = 0, Reactivity = 0  
H1/F0/PH0



HMIS III	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARDS	0
PERSONAL PROTECTION F   Safety Glasses, Gloves, Apron, Dust Respirator	

PERSONAL PROTECTION INDEX			
A		G	
B		H	
C		I	
D		J	
E		K	
F		X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions
A		n	
O		p	
q		r	
s		Additional information	
t		u	
w		y	
z			



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GHS Signal Word:  
DANGER

GHS Hazard Pictograms:



GHS Classifications:

- Physical, Corrosive to Metals, 1
- Health, Skin corrosion/irritation, 1 C
- Health, Serious Eye Damage/Eye Irritation, 1

GHS Phrases:

- H290 - May be corrosive to metals
- H314 - Causes severe skin burns and eye damage
- H318 - Causes serious eye damage

GHS Precautionary Statements:

- P234 - Keep only in original container.
- P262 - Do not get in eyes, on skin, or on clothing.
- P264 - Wash skin thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P332+313 - If skin irritation occurs: Get medical advice/attention.
- P337+313 - If eye irritation persists: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse.
- P405 - Store locked up.
- P501 - Dispose of contents/container to an approved waste disposal plant.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Percentage	Chemical Name
77-92-9	>90%	Citric acid
N/A	<10%	Proprietary, non-hazardous, non-regulated



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### 4 FIRST AID MEASURES

- Inhalation:** Give oxygen or artificial respiration if needed. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.
- Skin Contact:** Take off contaminated clothing and shoes immediately. Wipe/brush off as much chemical as possible from skin BEFORE flushing skin with water (water will react exothermically with large amounts of residual dry chemical, potentially causing more severe burns). Promptly flush skin with water for at least 15 minutes to ensure all chemical is removed. If reddening develops and/or persists, obtain medical attention.
- Eye Contact:** Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Remove contact lenses if present and easy to do so. Get immediate medical attention. Continue rinsing eyes during transport to hospital.
- Ingestion:** Rinse mouth with water. Do NOT induce vomiting unless instructed to do so. Give 3-4 glasses of water or milk to dilute stomach contents. If vomiting occurs, give more water or milk. Never give anything by mouth to an unconscious person. Contact a Poison Control Center for advice. If symptoms develop and/or persist, obtain medical attention.

#### Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see Section 2) and/or Section 11.

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

No data available.

### 5 FIRE FIGHTING MEASURES

- Flammability:** Not flammable
- Flash Point:** DNA
- Flash Point Method:** DNA
- Burning Rate:** No data available
- Autoignition Temp:** No data available
- LEL:** DNA
- UEL:** DNA

#### Extinguishing Media:

Water Spray  
Carbon Dioxide  
Alcohol-Resistant Foam  
Dry Chemical

#### Special Hazards Arising From the Substance or Mixture:

Aldehydes  
Calcium Oxides  
Carbon Oxides  
Silicon Oxides  
Sodium Oxides

#### Advice for Firefighters:

Firefighters should wear full-face, positive-pressure respirators.

#### Further Information:

If incinerated, may release toxic fumes.



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Gives off Hydrogen by reaction with metals. Hydrogen is flammable and potentially explosive. Use caution.  
Use water spray to cool unopened containers.  
See Section 7 for more information on safe handling.  
See Section 8 for more information on personal protection equipment.  
See Section 13 for disposal information.

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### ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment, including dust respirator.  
Avoid dust formation.  
Avoid breathing dust.  
Keep from contacting skin or eyes.  
Avoid breathing vapors, mist or gas.  
Ensure adequate ventilation.  
Evacuate personnel to safe areas.

#### Environmental precautions:

Prevent further release (leakage/spillage) if safe to do so.  
Do not allow product to enter drains.  
Do not allow to drain to environment.

#### Methods and materials for containments and cleaning up:

Pick up and arrange disposal without creating dust.  
Sweep up, shovel or collect spillage with an electrically protected vacuum cleaner.  
Place contaminated material into suitable, closed containers for disposal.  
Dispose of contaminated material according to Section 13.  
After spillage has been collected, area may be flushed with water or wet-brushed.  
Ensure adequate ventilation.

#### Reference to other sections:

Comply with federal, state and local regulations on reporting spills.  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on proper disposal.



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### 7 HANDLING AND STORAGE

- Handling Precautions:**
- Avoid breathing vapors or mist.
  - Avoid contact with eyes, skin, or clothing.
  - Keep containers closed when not in use.
  - Do not expose containers to open flame, excessive heat, or direct sunlight.
  - Do not puncture or drop containers.
  - Handle with care and avoid spillage on the floor.
  - Keep material out of reach of children.
  - Keep material away from incompatible materials.
  - Wash thoroughly after handling.
  - Ensure adequate ventilation.
- Storage Requirements:**
- Keep container tightly closed.
  - Do not store in direct sunlight.
  - Store above freezing point.
  - Store away from strong acids, strong bases, strong oxidizing agents, strong reducing agents, Potassium tartrate, Alkaline earth carbonates and bicarbonates, acetates and sulfides.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls:**
- All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

- Personal Protective Equip:**
- Eye/face protection:**  
When using powdered material use safety glasses, gloves, apron and dust respirator according to HMIS PP, F. When using material in aqueous form use safety glasses, gloves and apron according to HMIS PP, C. All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Skin protection:**  
Handle with gloves made from Neoprene, Nitrile or Buna rubber. Gloves must be inspected prior to use. Thoroughly rinse gloves prior to removal. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves according to applicable laws and laboratory practices.

**Body Protection:**  
Chemically resistant gloves, safety glasses and apron are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material. Use equipment appropriate to avoid contact with the skin, eyes and clothing.

**Respiratory protection:**  
Use of a dust respirator is recommended when handling powdered product. No respiratory protection is usually necessary when using product in aqueous form. Full-face vapor respirator may be required as backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds.

**Control of environmental exposure:**  
Prevent leakage or spillage if safe to do so.

**Components with workplace control parameters:**

Contains no substances with occupational exposure limits values.



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### Biological occupational exposure limits:

Contains no substances with biological occupational exposure limits values.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Off-white powder	<b>Odor:</b>	Odorless
<b>Physical State:</b>	Solid	<b>Molecular Formula:</b>	MIXTURE
<b>Odor Threshold:</b>	Not determined	<b>Solubility:</b>	100%
<b>Particle Size:</b>	Not determined	<b>Softening Point:</b>	Not determined
<b>Spec Grav./Density:</b>	Not determined	<b>Percent Volatile:</b>	DNA
<b>Viscosity:</b>	Not determined	<b>Heat Value:</b>	Not determined
<b>Sat. Vap. Conc.:</b>	Not determined	<b>Freezing/Melting Pt.:</b>	Not determined
<b>Boiling Point:</b>	Not determined	<b>Flash Point:</b>	DNA
<b>Flammability:</b>	(solid, gas): Not flammable	<b>Octanol:</b>	Not determined
<b>Partition Coefficient:</b>	Not determined	<b>Vapor Density:</b>	(air = 1): Not determined
<b>Vapor Pressure:</b>	(mm Hg @ 20 °C): Not determined	<b>VOC:</b>	DNA
<b>pH:</b>	@ 100%: 1.80	<b>Bulk Density:</b>	Not determined
<b>Evap. Rate:</b>	(N-Butyl Acetate = 1): Not determined	<b>Auto-ignition Temp:</b>	Not determined
<b>Molecular weight:</b>	MIXTURE	<b>UFL/LFL:</b>	DNA
<b>Decomp Temp:</b>	Not determined		

## 10 STABILITY AND REACTIVITY

<b>Stability:</b>	Product is stable under normal conditions.
<b>Conditions to Avoid:</b>	Incompatibilities, flames, ignition sources.
<b>Materials to Avoid:</b>	Strong acids, strong bases, strong oxidizing agents, strong reducing agents, Potassium tartrate, Alkaline earth carbonates and bicarbonates, acetates and sulfides.
<b>Hazardous Decomposition:</b>	Aldehydes, Calcium Oxides, Carbon Oxides, Silicon Oxides and Sodium Oxides.
<b>Hazardous Polymerization:</b>	Will not occur.

## 11 TOXICOLOGICAL INFORMATION

**Component(s):** Citric acid  
**CAS No(s):** 77-92-9

### Acute Toxicity:

LD50 Oral - Rat: 3,000 mg/kg  
LD50 Oral - Mouse: 5,040 mg/kg  
LDL Oral - Rabbit: 7,000 mg/kg  
LD50 Dermal - Rat: 2,000 mg/kg

**Skin Corrosion/Irritation:** Rabbit skin - Mild skin irritation.

**Serious Eye Damage/Eye Irritation:** Rabbit eyes - Irritating to eyes.

**Respiratory or Skin Sensitation:** Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.



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**Germ Cell Mutagenicity:** No data available.

**Carcinogenicity:**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive Toxicity:** No data available.

**Specific Target Organ Toxicity - Single Exposure:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure:** No data available.

**Aspiration Hazard:** No data available.

**Additional Information:**

Component: Citric acid; RTECS: GE7350000

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## ECOLOGICAL INFORMATION

**Component(s):** Citric acid

**CAS No(s):** 77-92-9

**Toxicity:**

Toxicity to fish:

Mortality LC50 - *Leuciscus idus melanotus* (Orfe): 440 mg/l (48 h)

Toxicity to daphnia and other aquatic invertebrates:

Static test EC50 - *Daphnia magna* (Water Flea): 1,535 mg/l (24 h)

**Persistence and Degradability:**

No data available.

**Bioaccumulative potential:**

No data available.

**Mobility in Soil:**

No data available.

**Results of PBT and vPvB assessment:**

Not required/conducted.

**Other Adverse Effects:**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Concentrated spills may present environmental hazard due to low pH.



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### 13 DISPOSAL CONSIDERATIONS

Product: Hazardous wastes shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging: Dispose of as unused product.

### 14 TRANSPORT INFORMATION

#### DOT (US)

Non-regulated material, solid

#### IMDG

Non-regulated material, solid

#### IATA

Non-regulated material, solid

### 15 REGULATORY INFORMATION

#### COMPONENT / (CAS/PERC) / CODES

-----  
\*Citric acid (77929 >90%) NJHS, PA, SARA311/312, TSCA

#### REGULATORY KEY DESCRIPTIONS

-----  
NJHS = NJ Right-to-Know Hazardous Substances  
PA = PA Right-To-Know List of Hazardous Substances  
SARA311/312 = SARA 311/312 Toxic Chemicals  
TSCA = Toxic Substances Control Act

### 16 OTHER INFORMATION

#### Disclaimer:

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that Replacement Parts Industries, Inc. believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of Replacement Parts Industries, Inc.'s control, Replacement Parts Industries, Inc. makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.

#### Preparation Information:

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