

# MSDS - Material Safety Data Sheet

## Product Name: Harvey's Resin Cleaner / Water Softener Conditioner and Cleaner

MSDS No.: 039830

### Part Numbers Covered:

039830  
379648

### 1. Basic Information:

Manufacturer: William H. Harvey Company

Address: 4334 South 67th Street

City, ST Zip: Omaha, NE 68117-1019

Emergency Contact: CHEMTREC

Emergency Telephone Number: (800)424-9300

Contact: Information Telephone Number

Information Telephone Number: (800)228-9681

Last Update: 08/08/2006

Expiration Date:

Chemical State:  Liquid  Gas  SolidChemical Type:  Pure  Mixture

1	Health
0	Flammability
0	Reactivity
B	Pers. Protection

### 2. Ingredients:

 Trade Secret

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB	Z	313				
77-92-9	Citric Acid								15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NE
7664-38-2	Phosphoric Acid						X		1 MG/M3	1MG/M3	NI

### 3. Hazardous Identification:

Hazard Category:

 Acute  Chronic  Fire  Pressure  Reactive

#### Hazardous Identification Information:

Acute exposure to this product may cause eye irritation.

Prolonged and repeated exposure may cause eye and skin irritation.

### 4. First Aid Measures:

#### Route(s) of Entry:

Eye contact, skin contact, ingestion. Inhalation not a likely route of entry.

#### Health Hazards (Acute and Chronic):

Acute exposure to product may cause irritation to eyes. Prolonged and repeated exposure may cause eye irritation or skin irritation.

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**Signs and Symptoms:**

This product may cause eye irritation and skin irritation. Burning of the tissue in the mouth, esophagus and stomach can develop following ingestion. Irritation of the respiratory system may occur after prolonged inhalation of this product.

Skin sensitization can develop in extremely sensitive people.

**Medical Conditions Generally Aggravated by Exposure:**

None known.

**Emergency and First Aid Procedures:**

EMERGENCY FIRST AID CALL: 1-303-5716 COLLECT.

Eyes: Immediately flush with water for 15 minutes. If irritation persists, have eyes examined and treated by medical personnel.

Skin: If irritation occurs, wash material off skin with soap and water. See physician if irritation persists.

Ingestion: Get immediate medical attention or call a poison control center. Drink water or milk to dilute. Do not induce vomiting.

**Other Health Warnings:**

None noted.

#### ***5. Fire Fighting Measures:***

**Flash Point:** NA

**Lower Explosive Limit:** NA

**Upper Explosive Limit:** NA

**F.P. Method:**

**Fire Extinguishing Media:** Not considered to be a fire hazard. Contact with most metals causes formation of flammable and explosive hydrogen gas. Water spray, carbon dioxide, dry chemical.

**Special Fire Fighting Procedures:**

In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

**Unusual Fire and Explosion:**

Not considered to be a fire or explosion hazard. Contact with most metals causes formation of flammable and explosive hydrogen gas.

#### ***6. Accidental Release Measures:***

**Steps to be Taken in Case Material is Released or Spilled:**

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering area. Contain and recover liquid when possible. Neutralize with alkaline material (soda ash, lime), then absorb with an inert material (e.g. vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! U.S. regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities.

#### ***7. Handling and Storage:***

**Precautions to be Taken:**

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture, incompatibilities, and direct sunlight. Corrosive to mild steel.

Do not wash out container and use it for other purposes. Rinse empty containers of this product 3 times with clean water before disposal.

Observe all warnings and precautions listed for this product.

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**Other Precautions:**

Keep out of reach of children and pets.

#### 8. Exposure Controls/Personal Protection:

**Ventilation Requirements:**

Normal room ventilation.

**Personal Protective Equipment:**

None required under normal conditions of use. If needed, use chemical resistant gloves, safety glasses or face shield.

#### 9. Physical and Chemical Properties:

**Boiling Point:** NE

**Melting Point:** NA

**Evaporation Rate (Butyl Acetate = 1):** NE

**Vapor Pressure (mm Hg.):** NE

**Specific Gravity (H2O = 1):** 1.12000

**Vapor Density (AIR = 1):** ~ 1.5

**Solubility In Water:** Completely soluble

**Appearance and Odor:** Light Green, Clear, thin liquid / acidic odor

**Other Information:** pH: ~ 1.0

#### 10. Stability and Reactivity:

**Stability:**

Stable under normal conditions of use and storage.

**Incompatibility (Materials to Avoid):**

Based on the active ingredient, Phosphoric Acid which is 18.75 % by weight of this product: 100% Phosphoric Acid reacts with alkalis (bases) to form phosphate salts and is corrosive (especially when hot) to many metals and alloys. Liberates explosive hydrogen gas when reacting with chlorides and stainless steel, and reacts violently with sodium tetrahydroborate. Causes exothermic reactions with aldehydes, amines, amides, alcohols and glycols, azo-compounds, carbamates, esters, caustics, phenols and cresols, ketones, organophosphates, epoxides, explosives, combustible materials, unsaturated halides, and organic peroxides. Forms flammable gases with sulfides, mercaptans, cyanides, and aldehydes. Also forms toxic fumes with cyanides, sulfides, fluorides, organic peroxides, and halogenated organics. Hot, dilute phosphoric acid reacts with nickel carbonate to form trinickel orthophosphate. Mixtures with nitromethane are explosive. powdered metals

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**Decomposition/By Products:**

Based on the active ingredient, Phosphoric Acid which is 18.75 % by weight of this product; Phosphine, oxides of phosphorus, hydrogen gas.

**Hazardous Polymerization:**

May occur.

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### ***11. Toxicological Information:***

No data available.

### ***12. Ecological Information:***

No data available on this particular product

For Phosphoric Acid, when released to the soil, this material may leach into groundwater. When released to water, acidity may be readily reduced by natural water hardness minerals. The phosphate, however, may persist indefinitely.

### ***13. Disposal Considerations:***

Dispose of this product or its residues in accordance with all local, state and federal requirements.

### ***14. Transport Information:***

DOT PROPER SHIPPING NAME: Unrestricted

DOT LABEL: NA

DOT NUMBER: NA

UN NUMBER: NA

IMCO CLASS: NA

DOT HAZARD CLASSIFICATION: NA

### ***15. Regulatory Information:***

NDA

### ***16. Other Information:***

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**ABBREVIATIONS:**

~ = Approximately  
< = Less Than  
> = Greater Than  
ACGIH = American Conference of Governmental Industrial Hygienists  
AIHA = American Industrial Hygiene Association  
C = Degrees Celcius  
Deg = Degrees  
EPA = Environmental Protection Agency  
F = Degrees Farenheit  
HMIS = Hazardous Materials Information System  
IARC = International Agency for Research on Cancer  
NA = Not Applicable  
NDA = No Data Available  
NE = Not Established  
NFPA = National Fire Protection Association  
NI = Not Indicated  
NIOSH = National Institute of Occupational Safety and Health  
NTP = National Toxicology Program  
OSHA = Occupational Safety and Health Administration

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