

# SAFETY DATA SHEET

## Liquid Iron Control Sour

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Revision: 02/27/2015

Distributor: International Market Brands 21500 Alexander Road, Cleveland, OH 44146 (440)439-0600

### 1. Product and Company Identification

**Product Code:** 4335  
**Product Name:** Liquid Iron Control Sour  
**Company Name:** PDQ Manufacturing, Inc. **Phone Number:**  
201 Victory Circle (706)636-1848  
Ellijay, GA 30540  
**Web site address:** www.pdqonline.com  
**Emergency Contact:** Chemtrec, Use Company Code: A814 (800)424-9300  
**Information:** info@pdqonline.com (706)636-1848

### 2. Hazards Identification

**Acute Toxicity: Oral, Category 5**  
**Skin Corrosion/Irritation, Category 2**  
**Serious Eye Damage/Eye Irritation, Category 1**



**GHS Signal Word:** Danger  
**GHS Hazard Phrases:** H303 - May be harmful if swallowed.  
H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
**GHS Precaution Phrases:** P264 - Wash hands thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
**GHS Response Phrases:** P302+352 - IF ON SKIN: Wash with plenty of soap and water.  
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or physician for treatment advise. Have product container or label with you when calling poison control center or physician.  
P310 - Immediately call a POISON CENTER or doctor/physician.  
P321 - Specific treatment see ... on this label.  
P332+313 - If skin irritation occurs, get medical advice/attention.  
P362 - Take off contaminated clothing and wash before re-use.  
**GHS Storage and Disposal Phrases:** No phrases apply.  
**Potential Health Effects (Acute and Chronic):** Chronic exposure may cause kidney damage.  
**Inhalation:** Causes chemical burns to the respiratory tract. Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. No hazard expected in normal industrial use. Causes respiratory tract irritation.  
**Skin Contact:** Causes skin burns. Harmful if absorbed through the skin. Ingestion can cause burning pain in mouth, throat and abdomen - May be fatal if ingested. Causes skin irritation.  
**Eye Contact:** Causes eye burns. Causes eye irritation.  
**Ingestion:** May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. Harmful if swallowed. No hazard expected in normal industrial use.

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
79-14-1	Glycolic acid {Hydroxyacetic acid}	5.0 -10.0 %
6153-56-6	Ethanedioic acid, Dihydrate {Oxalic acid dihydrate}	1.0 -5.0 %
77-92-9	Citric acid	1.0 -5.0 %

### 4. First Aid Measures

**Emergency and First Aid Procedures:**

**In Case of Inhalation:** If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Consult a physician.

**In Case of Skin Contact:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Consult a physician.

**In Case of Eye Contact:** In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid immediately.

**In Case of Ingestion:** Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**Signs and Symptoms Of Exposure:** Vomiting, Diarrhea. Damage to tooth enamel. Dermatitis. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Note to Physician:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### 5. Fire Fighting Measures

**Flash Pt:** NP Method Used: Estimate

**Explosive Limits:** LEL: UEL:

**Autoignition Pt:** NP

**Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or appropriate foam.

**Fire Fighting Instructions:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Reacts with most metals in the presence of moisture, liberating extremely flammable hydrogen gas. Runoff from fire control or dilution water may cause pollution. Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Material will not burn.

**Flammable Properties and Hazards:**

### 6. Accidental Release Measures

**Steps To Be Taken In Case Material Is Released Or Spilled:** Use proper personal protective equipment as indicated in Section 8.  
Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. PROCEDURE(S) OF PERSONAL PRECAUTION(S)  
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Methods for cleaning up.  
Avoid raising dust. Ventilate area and wash spill site after material pickup is complete. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Personal precautions.

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions.

Do not let product enter drains.

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. Handling and Storage

### Precautions To Be Taken in Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Keep container tightly closed. Do not ingest or inhale. Use with adequate ventilation. Discard contaminated shoes. Avoid contact with eyes, skin, and clothing. No special handling procedures are required. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Precautions To Be Taken in Storing:

Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Corrosives area. Store protected from moisture. Suitable: SPECIAL REQUIREMENTS:  
No special storage requirements.

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
79-14-1	Glycolic acid {Hydroxyacetic acid}			
6153-56-6	Ethanedioic acid, Dihydrate {Oxalic acid dihydrate}			
77-92-9	Citric acid			

### Respiratory Equipment (Specify Type):

#### Eye Protection:

Safety glasses.

#### Protective Gloves:

Wear appropriate protective gloves to prevent skin exposure. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands.

#### Other Protective Clothing:

Wear appropriate protective clothing to prevent skin exposure.

#### Engineering Controls (Ventilation etc.):

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. There are no special ventilation requirements.

#### Work/Hygienic/Maintenance Practices:

Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. Physical and Chemical Properties

**Physical States:** [ ] Gas [X] Liquid [ ] Solid  
**Appearance and Odor:** Clear colorless liquid  
Fragrant odor.  
**Melting Point:** 72.00 C - 159.00 C  
**Boiling Point:** 100.00 C  
**Autoignition Pt:** NP  
**Flash Pt:** NP Method Used: Estimate  
**Explosive Limits:** LEL: UEL:  
**Specific Gravity (Water = 1):** ~ 1.05  
**Vapor Pressure (vs. Air or mm Hg):**  
**Vapor Density (vs. Air = 1):**  
**Evaporation Rate:**  
**Solubility in Water:** Complete  
**Solubility Notes:** Miscible with water.  
**Viscosity:** Thin  
**pH:** < 2.5  
**Percent Volatile:**

## 10. Stability and Reactivity

**Stability:** Unstable [ ] Stable [X]  
**Conditions To Avoid - Instability:** No data available.  
**Incompatibility - Materials To Avoid:** Strong acids. Strong bases, Bases, Avoid contact with metals. Acid chlorides, Oxidizing agents, Reducing agents, nitrates.  
**Hazardous Decomposition Or Byproducts:** Carbon monoxide, irritating and toxic fumes and gases, formed under fire conditions. Carbon oxides.  
**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [X]  
**Conditions To Avoid - Hazardous Reactions:**

## 11. Toxicological Information

**Toxicological Information:** Epidemiology: Not regulated under U.S. Department of Transportation regulations (29 CFR)  
 Teratogenicity: No information available.  
 Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies: No data available.

**Irritation or Corrosion:** Skin - rabbit - Mild skin irritation - -24 h.  
 Serious eye damage/eye irritation:  
 Eyes - rabbit - Severe eye irritation.

**Carcinogenicity/Other Information:** CAS# 79-14-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Carcinogenicity.  
 IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human 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 known or anticipated 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.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
79-14-1	Glycolic acid {Hydroxyacetic acid}	n.a.	n.a.	n.a.	n.a.
6153-56-6	Ethanedioic acid, Dihydrate {Oxalic acid dihydrate}	n.a.	n.a.	n.a.	n.a.
77-92-9	Citric acid	n.a.	n.a.	n.a.	n.a.

## 12. Ecological Information

**General Ecological Information:** Environmental: Not readily biodegradable. After 7 days, 89.6% is biodegraded (closed bottle test).  
 Physical: No information available.  
 ELIMINATION.

**Persistence and Degradability:** No data available.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

## 13. Disposal Considerations

**Waste Disposal Method:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.  
 RCRA P-Series: None listed.  
 RCRA U-Series: None listed. Empty container may be recycled or disposed of as solid sanitary waste. Do not reuse container. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.  
 Product.  
 Offer surplus and non-recyclable solutions to a licensed disposal company.  
 Contaminated packaging.  
 Dispose of as unused product.

## 14. Transport Information

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Corrosive liquid, acidic, inorganic, n.o.s. (Glycolic acid)

**DOT Hazard Class:** 8 CORROSIVE

**UN/NA Number:** UN3264 **Packing Group:** II



## 15. Regulatory Information

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
79-14-1	Glycolic acid {Hydroxyacetic acid}	No	No	No
6153-56-6	Ethanedioic acid, Dihydrate {Oxalic acid dihydrate}	No	No	No
77-92-9	Citric acid	No	No	No

**CAS # Hazardous Components (Chemical Name)**

**Other US EPA or State Lists**

79-14-1	Glycolic acid {Hydroxyacetic acid}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
6153-56-6	Ethanedioic acid, Dihydrate {Oxalic acid dihydrate}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
77-92-9	Citric acid	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

## 16. Other Information

**Revision Date:** 02/27/2015

**Preparer Name:** Regulatory Affairs

**Hazard Rating System:**

<b>HEALTH</b>	2
<b>FLAMMABILITY</b>	0
<b>REACTIVITY</b>	2
<b>PPE</b>	B

**HMIS:**

**Additional Information About This Product:**

**Company Policy or Disclaimer:**

The information contained in this Safety Data Sheet is provided pursuant to current OSHA regulations to convey information concerning the hazardous nature of the named product. The information supplied was compiled from the most reliable sources available at the time of preparation and in light of the most reasonable foreseeable exposure situations expected from the intended use of this product. The material(s) may present greater or lesser hazard exposure under other circumstances that are beyond the control of the manufacturer. Therefore it is imperative that all directions and warnings on the product label be read and closely followed.