

# MSDS Document

PG LC

## Product MURIATIC ACID 20°

### 1. Chemical Product and Company Identification

Trade Name of this Product MURIATIC ACID 20°

MSDS ID MSDS2510

**Manufacturer**

Haviland Consumer Products, Inc.  
421 Ann Street N.W.  
Grand Rapids, MI 49504

**Phone Number**

(616) 361-6691

**Emergency Phone**

CHEMTREC (800) 424-9300

CHEMTREC International (703) 527-3887

**Revision Date** 5/15/2006

|             |   |
|-------------|---|
| Health:     | 3 |
| Fire:       | 0 |
| Reactivity: | 0 |
| Specific    |   |

### 2. Composition and Information on Ingredients

| Ingredient        | CAS Number | Weight % | ACGIH TLV     | PEL           | STEL |
|-------------------|------------|----------|---------------|---------------|------|
| Hydrochloric acid | 7647-01-0  |          | 5 ppm ceiling | 5 ppm ceiling |      |

### 3. Hazard Identification

**Emergency Overview**

Corrosive acid mixture. May be fatal if swallowed or inhaled. Causes severe burns to eyes, skin and respiratory tract.

**Health Effects**

Corrosive to all body tissues with which it comes in contact. Inhalation of spray or mist may result in various degrees of irritation or damage to the respiratory tract tissues.

**Carcinogenicity**

None of the components present in this material are listed by IARC or NTP as a carcinogen.

**Reproductive Effects**

None known

**Routes of Entry**

Inhalation, Ingestion, Skin or Eye Contact

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**4. First Aid Information**

**Eye Contact**

Flush immediately with plenty of water for at least 15 minutes, get medical attention.

**Skin Contact**

Flush with water for at least 15 minutes while removing contaminated clothing. If irritation persists, get medical attention.

**Inhalation**

Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Ingestion**

Call a physician immediately. Do not induce vomiting. Dilute by drinking water or milk. Never give anything by mouth to an unconscious person.

**5. Fire Fighting Measures**

**Flash Point**

N/A

**Extinguishing Media**

Use media suitable for the surrounding fires.

**Special Fire Fighting Procedures**

Fire fighters should wear full protective clothing including self-contained breathing apparatus.

**Unusual Fire Hazard**

Reacts with most metals, especially when dilute: Hydrogen gas release (Extremely flammable, explosive).

**6. Accidental Release Measures**

**Spill and Leak Procedures**

Spills should be handled immediately by neutralization and dilution of the spilled product by the use of sodium bicarbonate, soda ash, or lime with large amounts of water.

**7. Handling and Storage**

**Handling Procedures**

Use with adequate ventilation. Avoid breathing vapors or mists. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

**Storage Procedures**

Store away from heat and out of direct sunlight. Store in a well ventilated, dry area away

from incompatible materials.

## 8. Exposure Controls and Personal Protection

### Engineering Controls

Provide ventilation sufficient to maintain exposure below the recommended limits.

### Eye Protection

Chemical safety goggles

### Protective Gloves

Rubber or other impervious materials.

### Respiratory Protection

When respirators are required, select NIOSH/MSHA approved air-purifying (half-mask/full-face) respirator with cartridges/canister approved for use against acid gases.

### Other Protective Equipment

For operations where spills or splashing may occur, use an impervious body covering and boots. A safety shower and eye bath should be available.

## 9. Physical and Chemical Properties

|                        |  |
|------------------------|--|
| Physical State         | Liquid                                     |
| Specific Gravity       | 1.16                                       |
| Color/Appearance       | Clear, colorless to slightly yellow liquid |
| Odor                   | Pungent odor                               |
| pH                     | Not Established                            |
| Boiling/Cond. Point    | 183°F                                      |
| Melting/Freezing Point | -49°F                                      |
| Solubility             | Complete                                   |
| Vapor Density          | 1.3  |
| Vapor Pressure         | 20 mm Hg @ 20°C                            |

## 10. Stability and Reactivity

### Conditions to Avoid

Excessive heat.

### Chemical Stability

Stable

### Incompatible Materials

Incompatible with most metals, hydroxides, amines, alkalis, cyanides, sulfides, strong oxidizers, carbonates, hypochlorites and formaldehyde.

### Hazardous Decomposition Products

Hydrogen gas, chlorine gas, hydrogen chloride gas.

### Hazardous Polymerization

Will not occur.

## 11. Toxicological Information

No information available.

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## 12. Ecological Information

No information available.

## 13. Disposal Considerations

### Waste Disposal

Neutralized waste must be disposed of in accordance with applicable federal, state, and local regulations.

## 14. Transportation Information

### DOT Shipping Name

Hydrochloric acid, solution

### Hazard Class

8, Corrosive

### UN Number

UN1789

### Packing Group

PG II

## 15. Regulatory Information

### Reportable Quantity

5000 lb.

### EHS

Hazardous Component(s) Contain Extremely Hazardous Substance.

### TSCA

Hazardous Component(s) subject to reporting on the TSCA List.

### WHMIS

Hazardous Component(s) subject to WHMIS Ingredient Disclosure.

## 16. Other Information

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

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