



# Material Safety Data Sheet # 344

Hercules Chemical Company Inc.  
 111 South Street  
 Passaic NJ 07055-7398  
 Information Telephone: 1-800 221-9330  
 Internet: www.herchem.com

NFPA	HMIS	PPE	Transport Symbol						
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FLAMMABILITY	0								
REACTIVITY	2								

Preparation Date Oct 31, 2007

Revision Date

Revision Number 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identity:** CLOROBEN DRAIN PURGE  
**Intended Use:** DRAIN OPENER.

**Manufacturer:** Hercules Chemical Company, Inc.  
 111 South Street  
 Passaic, New Jersey 07055-7398

**Information Telephone:** (800) 221-9330

**Internet:** <http://www.herchem.com>

**Emergency Phone: CHEMTREC: (800) 424-9300**

**MSDS Date of Preparation: 10/18/2007**

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Dark brown oily liquid with Sulphur dioxide (Rotten Egg odor). Causes severe skin and eye burns. Causes burns of the mouth, throat and stomach.

### Potential Health Effects.

**Inhalation:** Inhalation of fumes or acid mist can cause irritation or corrosive burns to the upper respiratory system, including the nose, mouth and throat. May irritate the lungs. May cause pulmonary edema.

**Ingestion:** Causes burns of the mouth, throat and stomach. May be fatal if swallowed.

**Eye:** Causes severe burns.

**Skin:** Causes severe burns.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Wt/Wt %	OSHA PEL	ACGIH TLV	Other Limits
Sulfuric Acid	7664-93-9	93	1 mg/m3	1 mg/m3	15 mg/m3-IDLH
Water	7732-18-5	7	N/A	N/A	N/A

HMIS Hazard Rating: 3 0 2 H

**4. EMERGENCY AND FIRST AID PROCEDURES.**

**Eye:** Immediately flush victim's eyes with large quantities of water, for 15 minutes, holding the eyelids apart. Get immediate medical attention.

**Skin:** Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing while washing.

Get medical attention immediately.

**Ingestion:** DO NOT INDUCE VOMITING. Rinse mouth with water. Give victim water or milk to dilute the material. Seek immediately medical help.

**Inhalation:** If overcome by vapor from product, remove to fresh air. If not breathing, give artificial respiration if trained. Call a physician.

**Note:** Never give anything by mouth to an unconscious person.

**5. FIRE FIGHTING MEASURES**

**Flashpoint:** Not flammable

**Flammable Limits:** N/A

**Autoignition Temperature:** N/A

**Extinguishing Media:** Water fog, Foam, Dry Chemical, Carbon Dioxide

**Unusual Fire or Explosion Hazards:** Non flammable, but may cause ignition by contact with combustible material. Dilute acid reacts with most metals giving off flammable hydrogen gas.

**Special Fire-Fighting Instructions:** Do not use solid water streams. Acid reacts violently with water and can spatter acid onto personnel. Firefighters and others who might be exposed to products of combustion, should wear (NIOSH approved) positive pressure self-contained breathing apparatus and full protective clothing.

**Hazardous Combustion Products:** Sulfur trioxide gas, sulfuric acid mist and sulfur dioxide at elevated temperature.

**6. ACCIDENTAL RELEASE MEASURES**

**Spills/Leak Control:** Spill area should be isolated to avoid employee exposure. Remove all ignition sources. For small spills, neutralize with soda ash or lime. Absorb with sand, clay or diatomaceous earth. Dike large spills, collect into an acid resistant container if possible otherwise cautiously dilute and neutralize with soda ash or lime. Collect or sweep neutralized material into an acid safe container for proper disposal. Wash the area with large amount of water.

**7. HANDLING AND STORAGE**

**Handling:** Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or mist. Wear Acid protective clothing. Make sure the closure is securely fastened. Wash thoroughly after handling.

**Storage:** Store in original containers in a cool dry place. Keep separate from alkalis, metal explosives and easily ignitable materials.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Respiratory Protection:** If mist exists, use NIOSH approved acid-mist respirator.

**Engineering Controls:** Use with general or local exhaust ventilation. Packaging and unloading areas and open processing equipment may require mechanical exhaust system.

**Skin Protection:** Wear acid resistant rubber gloves and apron where contact is anticipated.

**Eye Protection:** Safety glasses or goggles and full faceshield when handling liquid. Do not wear contact lenses.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance And Odor:</b> Dark Brown.	<b>Boiling Point:</b> 279°C (535°F)
<b>Physical State:</b> liquid	<b>Vapor Pressure:</b> < 1
<b>Vapor Density:</b> 3.4	<b>Evaporation Rate:</b> (Butyl Acetate=1) N/A
<b>Solubility In Water:</b> 100%	<b>Volatile Components:</b> N/A
<b>Specific Gravity:</b> 1.84	<b>Viscosity:</b> N/A
<b>Melting Point:</b> -35°C/-31°F	<b>pH:</b> 0.9 (1% solution)

## 10. STABILITY AND REACTIVITY

**Stability:** Stable.

**Conditions to avoid:** Avoid temperatures greater than 300°C. Yields toxic and corrosive sulfur trioxide gas.

**Incompatibility:** Strong reducing and oxidizing agents or combustible organic materials, water, alkaline solutions, powdered metals, carbides, chlorates, nitrates, fulminates, picrates.

**Hazardous Decomposition Products:** Sulfur dioxide, sulfuric acid mist, sulfur dioxide at elevated temperatures.

**Hazardous Polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### HEALTH HAZARDS:

**Inhalation:** Acid mists or vapors may cause damage to the upper respiratory tract and even to the lung tissue.

**Eye:** Causes severe eye burn

**Skin:** Causes severe and destructive burns.

**Ingestion:** Causes burns and complete tissue perforation of mucous membrane of the mouth throat , esophagus and stomach.

**Sensitization:** N/A.

**Chronic:** May consist of multiple areas of superficial destruction of the skin or primary irritant dermatitis.

**Carcinogenicity:** Not listed as a carcinogen by NTP, IARC or OSHA.

Sulfuric Acid mist is listed as a known carcinogen by both NTP and IARC.

**Mutagenicity:** N/A

**Medical Conditions Aggravated by Exposure:** Reparatory diseases.

**Reproductive Toxicity:** None

**Acute Effects:** LD50 (oral-rat)—2140 mg/Kg

LC50 (inhl-rat)—510 mg/m<sup>3</sup>/2hr

## 12. ECOLOGICAL INFORMATION

Moderately toxic to aquatic organisms

24.5 ppm/24 hr./bluegill/lethal/fresh water

42.5 ppm/48 hr./prawn/LC50/Salt water

## 13. DISPOSAL CONSIDERATIONS

Do not flush to surface water or sanitary sewer system. Dispose of in accordance with Federal, State, and Local regulations.

If approved, neutralize and transfer to waste treatment system.

**14. TRANSPORT INFORMATION**

DOT PROPER SHIPPING NAME: Sulfuric Acid  
ID: 1830  
HAZARD CLASS: 8  
PACKING GROUP: II

**15. REGULATORY INFORMATION****EPA Regulation:**

Listed on TSCA inventory list.

**SARA TITLE III/CERCLA:**

SULFURIC ACID SARA/CERCLA RQ (LB)—1000 , SARA EHS TPQ (LB)—1000

SECTION 311 HAZARD CLASS: Immediate

SARA 313 Toxic Chemicals: Sulfuric Acid may be subject to reporting requirements.

CANADA: Acceptable for use under the provisions of CEPA.

Listed on CANADA DSL

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.**

**WHMIS CLASSIFICATION:**

Class D-1A Very Toxic Material

Class E: Corrosive

**16. OTHER INFORMATION****DISCLAIMER:**

The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, Hercules cannot give any guarantees regarding information from other sources, and expressly does not make warranties, nor assumes any liability for its use.