



Material Safety Data Sheet # 393

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 | | | | | | |
|--------------|--|--------|------------------|--------------|---|------------|---|--|--|
| | <table border="1"> <tr><td>HEALTH</td><td>2</td></tr> <tr><td>FLAMMABILITY</td><td>0</td></tr> <tr><td>REACTIVITY</td><td>2</td></tr> </table> | HEALTH | 2 | FLAMMABILITY | 0 | REACTIVITY | 2 | | |
| HEALTH | 2 | | | | | | | | |
| FLAMMABILITY | 0 | | | | | | | | |
| REACTIVITY | 2 | | | | | | | | |

Preparation Date 5/12/11

Revision Date 5/12/2011

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Cloroben Open Wide

Recommended Use Use in drains

Supplier Address
 Hercules Chemical Company, Inc.
 111 South St.
 Passaic, NJ 07055
 TEL: 973-778-5000

Company Emergency Phone Number 1-800-221-9330
Emergency Telephone Number Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

DANGER!

Emergency Overview

POISON
 MAY BE FATAL IF SWALLOWED
 Corrosive
 Harmful by inhalation
 The product causes burns of eyes, skin and mucous membranes
 Reacts violently with water

Appearance Off-white granular solid w/gray granules.

Physical State Solid. Granular.

Odor Odorless.

Potential Health Effects

Principle Routes of Exposure

Skin contact, Eye contact, Ingestion, Inhalation.

Acute Effects

Eyes

Causes burns. Corrosive to the eyes and may cause severe damage including blindness.

Skin

Causes burns.

Inhalation

Harmful by inhalation. Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Aspiration into lungs can produce severe lung damage.

Ingestion

Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tract. Can burn mouth, throat, and stomach.

Chronic Effects Possible risks of irreversible effects.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions Preexisting eye disorders. Skin disorders. Respiratory disorders.

Potential Environmental Effects See Section 12 for additional Ecological information

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % |
|---------------------|------------|----------|
| Sodium hydroxide | 1310-73-2 | 60-100 |
| Sodium Percarbonate | 15630-89-4 | 10-30 |
| Sodium Carbonate | 497-19-8 | 1-5 |

4. FIRST AID MEASURES

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Consult a physician.

Inhalation Call a physician or Poison Control Center immediately. Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion Call a physician immediately. Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Notes to Physician Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

Protection of First-aiders Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable

Flash Point No data available

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Explosion Data

Sensitivity to mechanical impact Not sensitive

Sensitivity to static discharge Not sensitive

Specific Hazards Arising from the Chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. Substance will react with water (some violently), releasing corrosive and/or toxic gases.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA
HMIS**Health 2**
Health 2**Flammability 0**
Flammability 0**Instability 2**
Instability 2**Physical Hazard -****6. ACCIDENTAL RELEASE MEASURES**

| | |
|--------------------------------|---|
| Personal Precautions | Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid dust formation. |
| Methods for Containment | Prevent further leakage or spillage if safe to do so. Prevent dust cloud. |
| Methods for Clean-up | Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically and collect in suitable container for disposal. Avoid dust formation. Clean contaminated surface thoroughly. |
| Other Information | Do not get water inside containers. Refer to protective measures listed in sections 7 and 8. |

7. HANDLING AND STORAGE

| | |
|-----------------|---|
| Handling | Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapors/dust. Remove and wash contaminated clothing before re-use. |
| Storage | Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|----------------------|----------------------------------|----------------------------------|----------------------|
| Sodium hydroxide | Ceiling: 2 mg/m ³ | Ceiling: 2 mg/m ³ | 10 mg/m ³ |
| Sodium Percarbonate | 3 mg/m ³ (Resp. dust) | 5 mg/m ³ (Resp. dust) | |
| Sodium Carbonate | 3 mg/m ³ (Resp. dust) | 5 mg/m ³ (Resp. dust) | |

NIOSH IDLH: Immediately Dangerous to Life or Health

Engineering Controls
Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment**Eye/face Protection****Skin Protection****Respiratory Protection**

Tightly fitting safety goggles. Face-shield.

Impervious clothing. Impervious gloves.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations

Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes and clothing. Keep away from food, drink and animal feeding stuffs. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-----------------------------------|--|----------------------------|----------------------------------|
| Appearance | Off-white granular solid w/gray granules | Odor | Odorless |
| Physical State | Solid granular | pH | 13-14 (0.5% aq. solution) |
| Autoignition Temperature | Not applicable | Boiling Point/Range | N/A |
| Melting Point/Range | N/A | | |
| Flammability Limits in Air | No data available | | |
| Specific Gravity | 1.20 | Water Solubility | Appreciable (42g/100cc of water) |
| Solubility | No data available | VOC Content | 0 g/L |

10. STABILITY AND REACTIVITY

| | |
|---|---|
| Chemical Stability | Stable under recommended storage conditions |
| Conditions to Avoid | Can react violently with acids and many organic compounds |
| Incompatible Materials | Incompatible with oxidizing agents. Acids. Aluminum, Tin, Zinc, Halogens. Chlorinated compounds. |
| Hazardous Decomposition Products | Thermal decomposition can lead to release of irritating gases and vapors. |
| Hazardous Polymerization | Caustic Soda & trichloroethylene are especially hazardous since they react to form spontaneously flammable dichloroacetylene. |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

| | |
|--------------------------------|---------------------|
| Product Information | . |
| LD50 Oral VALUE (mg/kg) | 140 mg/kg (rat) |
| LD50 Dermal VALUE | 1350 mg/kg (rabbit) |

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|------------------|-----------------|-----------------------|-----------------|
| Sodium hydroxide | 140 mg/Kg (Rat) | 1350 mg/kg (Rabbit) | N/E |

Chronic Toxicity

| | |
|--|---|
| Chronic Toxicity | Possible risks of irreversible effects. |
| Carcinogenicity | There are no known carcinogenic chemicals in this product |
| Reproductive Effects | This product does not contain any known or suspected reproductive hazards |
| Target Organ Effects | Eyes, Skin, Respiratory system, Mucous Membrane. |
| Endocrine Disruptor Information | This product does not contain any known or suspected endocrine disruptors |

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects.

| | |
|--|--|
| Mobility in Environmental Media | Will likely be mobile in the environment due to its water solubility |
|--|--|

13. DISPOSAL CONSIDERATIONS

| | |
|-------------------------------|--|
| Waste Disposal Method | Should not be released into the environment. |
| Contaminated Packaging | Do not re-use empty containers. |
| US EPA Waste Number | D002 |

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name | California Hazardous Waste Status |
|------------------|-----------------------------------|
| Sodium hydroxide | Toxic; Corrosive |

14. TRANSPORT INFORMATION

DOT

| | |
|-----------------------------|---|
| Proper Shipping Name | Sodium hydroxide, solid |
| Hazard Class | 8 |
| UN-No | UN1823 |
| Packing Group | II |
| Description | Sodium hydroxide, solid ,8 UN1823,PG II |

TDG

| | |
|-----------------------------|---|
| Proper Shipping Name | Sodium hydroxide, solid |
| Hazard Class | 8 |
| UN-No | UN1823 |
| Packing Group | II |
| Description | SODIUM HYDROXIDE, SOLID, 8,UN1823,PG II |

MEX

| | |
|-----------------------------|-------------------------------------|
| Proper Shipping Name | Sodium hydroxide, solid |
| Hazard Class | 8 |
| UN-No | UN1823 |
| Packing Group | II |
| Description | UN1823 Sodium hydroxide, solid,8,II |

Note: Containers of 1Kg (2.2 pounds) or less can be shipped as a Consumer Commodity (Limited Quantity) in packages with a gross mass of 30 kg (66 pounds) or less.

15. REGULATORY INFORMATION

International Inventories

| | |
|---------------|----------|
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Complies |
| CHINA | Complies |
| KECL | Complies |
| PICCS | Complies |
| AICS | Complies |

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

| | |
|--|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | Yes |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | Yes |

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Sodium hydroxide | 1000 lb | | | X |

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs |
|------------------|--------------------------|------------------------------------|
| Sodium hydroxide | 1000 lb | |

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Chemical Name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|------------------|---------------|------------|--------------|----------|--------------|
| Sodium hydroxide | X | X | X | | X |

International Regulations

Mexico - Grade Severe risk, Grade 4

| Chemical Name | Carcinogen Status | Exposure Limits |
|------------------|-------------------|------------------------------|
| Sodium hydroxide | | Ceiling: 2 mg/m ³ |

Canada

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 Hazard Class

D1A Very toxic materials

E Corrosive material



16. OTHER INFORMATION

Preparation Date 5/20/11

Revision Date

Revision Summary No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS