






Material Safety Data Sheet # 392

Hercules Chemical Company Inc.
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NFPA	HMIS	PPE	Transport Symbol						
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HEALTH	2								
FLAMMABILITY	0								
REACTIVITY	2								

Preparation Date 5/10/11

Revision Date 5/10/2011

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Cloroben CloroClean

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 (granular)	1310-73-2	60-100
Aluminum (granular)	7429-90-5	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
Aluminum (dust)	5mg/m ³	5mg/m ³	n/a

NIOSH IDLH: Immediately Dangerous to Life or Health

Engineering Controls	Showers Eyewash stations Ventilation systems
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Personal Protective Equipment

Eye/face Protection	Tightly fitting safety goggles. Face-shield.
Skin Protection	Impervious clothing. Impervious gloves.
Respiratory Protection	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	604°C / 1119°F		
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. 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
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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