

# OSHA-Required Health And Safety Information!

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## Section 1

**MATERIAL SAFETY DATA SHEET # 211**



**MATERIAL SAFETY INFORMATION SERVICE**

**Date Prepared:** 11/17/1999 **Last Reviewed:** 3/1/2000

Meets OSHA 29 CFR 1910.1200

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## Section 2 - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s), CAS Numbers)	OSHA PEL	ACGIH TLV	Other Limits	Upper Bound Limit if SARA Reportable
Oxidizing caustic cleaning compound.				
Sodium hydroxide (CAS 1310-73-2)	2mg/M <sup>3</sup>	2mg/M <sup>3</sup>		N/A
Sodium percarbonate (CAS15630-89-4)	2mg/M <sup>3</sup>	2mg/M <sup>3</sup>		N/A
Sodium carbonate (CAS 497-19-8)	2mg/M <sup>3</sup>	2mg/M <sup>3</sup>		

**HMIS Hazard Rating:** Health: 2 Flammability: 0 Reactivity: 2 Personal Protection: E

## Section 3 - Physical/Chemical Characteristics

<b>Boiling Point (°F):</b>	<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	<b>Vapor Density (Air = 1):</b>	<b>Vapor Pressure (mm Hg):</b>
N/A	1.20	N/A	N/A
<b>Melting Point (° F):</b>	<b>Evaporation Rate: (Butyl Acetate = 1)</b>	<b>Solubility in Water:</b>	
Not determined.	N/A	Appreciable: 42g/100cc of water at 0° C.	
<b>Appearance And Color:</b>	White to off white granular solid.		<b>Odor:</b> None.

## Section 4 - Fire And Explosion Hazard Data

<b>Flash Point:</b>	<b>Flammable Limits:</b>	<b>LEL:</b>	<b>UEL:</b>
N/A	N/A	N/A	N/A

**Extinguishing Media:** Does not burn or support combustion.

**Special Firefighting Procedures:**

As appropriate for surrounding fire.

**Unusual Fire And Explosion Hazards:**

Hot or molten product will react violently with water, liberating heat and causing splashing. Contact with metals, particularly Magnesium, Aluminum, and Zinc (galvanized), can rapidly generate hydrogen which is explosive.

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**Section 5 - Reactivity Data**

**Stability:** Stable      **Conditions To Avoid:** Can react violently with acids and many organic compounds.

**Incompatibility (Materials To Avoid):** Aluminum, tin, zinc and their alloys. All acids.

**Hazardous Decomposition:** Not determined.

**Hazardous Polymerization:** Caustic soda & trichloroethylene are especially hazardous since they react to form spont

**Section 6 - Health Hazard Data**

**Routes of Entry:**    **Inhalation** Yes/Primary      **Skin** Yes/Primary      **Ingestion** Yes/Secondary

**Health Hazards:**

Caustic soda is a corrosive material. Sodium Hydroxide: Acute Oral LD50=140-340 mg/kg (Rat) Acute Dermal LD 50=1.35 gm/kg (Rabbit)

**Carcinogenicity:**    **NTP** NO      **IARC** NO      **OSHA Regulated** NO

**Signs And Symptoms of Exposure:**

**INHALATION:** Airborne concentrations of dust, mist, or spray of caustic soda may cause damage to the upper respiratory tract and even to the lung tissue proper which could produce chemical pneumonia, depending upon the severity of exposure. **SKIN CONTACT:** Caustic soda is destructive to all tissues and produces severe burns. **EYE CONTACT:** Caustic Soda is destructive to eye tissues on contact. Will cause severe burns that result in damage to the eyes and even blindness. **INGESTION:** Caustic soda, if swallowed, can cause severe burns and complete tissue perforation of mucous membranes of the mouth, throat, esophagus, and stomach.

**Medical Conditions Generally Aggravated By Exposure:**

**EFFECTS OF OVEREXPOSURE -- ACUTE OVEREXPOSURE:** Corrosive to all body tissues with which it comes in contact. **CHRONIC OVEREXPOSURE:** Chronic local effect may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis. Similarly, inhalation of dust, spray or mist may result in varying degrees of irritation or damage to the respiratory tract tissues and an increased susceptibility to respiratory illness.

**Emergency And First Aid Procedures:**

**EYES:** Object is to flush material out immediately then seek medical attention. Immediately flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention. **SKIN:** Wash contaminated areas with plenty of water. Remove contaminated clothing and footwear and wash clothing before reuse. Discard footwear which cannot be decontaminated. Seek medical attention immediately. **INHALATION:** Get person out of contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately. **INGESTION:** Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water. If available give several glasses of milk. If vomiting occurs spontaneously, keep airways clear. Seek medical attention immediately.

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**Section 7 - Precautions For Safe Handling And Use:****Steps To Be Taken In Case Material Is Released Or Spilled:**

Get complete protective equipment. Shovel spilled material into steel containers, flush with ample water, rinse with dilute acid, preferably acetic acid, and finally with water.

**Waste Disposal Method:**

Dissolve and/or flush to holding area for pH adjustment and dilute before discharging to sewer or stream. For large quantities follow state/local regulations.

**Precautions To Be Taken In Handling And Storing:**

Store in a cool, dry place. Keep separate from acids, metal explosives, organic peroxides and easily ignitable materials.

**Other Precautions:**

Wear complete protective equipment when handling product in large quantities.

**Section 8 - Control Measures:****Respiratory Protection:**

Filter or dust type respirator.

Ventilation: Local Exhaust None  
Mechanical N/A

Special N/A

Other: N/A

Gloves: Neoprene or vinyl.

Eye Protection: Chemical safety goggles plus face shield when necessary.

Other Protective Clothing: Rubber safety toe shoes or boots, cotton overalls.

Work/Hygienic Practices: Use good personal hygiene practices.

**Additional Information:**

DOT B/L Description: Sodium Hydroxide, SOLID, 8, UN 1823, PG II.

DOT Hazard Class Information: Corrosive.

NJ Right-To-Know Labeling Information:

All information required is shown in Section 2 above



**FACTS**  
Faxed  
AST!

For Hercules Material Safety Data Sheets by fax anytime, day or night, just call 1-800-942-INFO (1-800-942-4636) from any Touch-Tone phone. Have your fax number ready. Checking the product label for the correct MSDS # will save time.