

## I - PRODUCT IDENTIFICATION

COMPANY NAME: Calgon Corporation  
ADDRESS: P. O. Box 1346  
Pittsburgh, PA 15230-1346  
24 Hour Emergency Telephone  
(412) 777-8000  
PRODUCT NAME: GEO-GUARD 2000  
Product No.: 1J02  
Synonyms: Liquid Alkaline Cleaner

## II - HAZARDOUS INGREDIENTS OF MIXTURES

MATERIAL: (CAS#)	% By Wt.	TLV	PEL
Potassium hydroxide (1310-58-3)	<25	2mg/m3 (ceiling)	2mg/m3 (ceiling)

## III - PHYSICAL DATA

Vapor Pressure, mm Hg: Like Water	Vapor Density (Air=1) 60-90F: Like H2O
Evaporation Rate(ether=1): N/A	% Volatile by wt @ 105C/2 hrs 72%
Solubility in H2O: Complete	pH @ 1% Solution 11.8-12.5
Freezing Point F: 32	pH as Distributed: >13
Boiling Point F: > 212	Appearance: Clear, light straw liquid
Specific Gravity H2O=1 @25C: 1.19	Odor: Mild chemical odor

## IV - FIRE AND EXPLOSION

Flash Point F: N/A  
Flammable Limits: N/A

Extinguishing Media: Product is not flammable or combustible. Use media appropriate for the primary source of fire.

Special Fire Fighting Procedures: Use caution when fighting any fire involving chemicals. A self-contained breathing apparatus is essential.

Unusual Fire and Explosion Hazards: Can react with soft metals to evolve flammable hydrogen gas.

## V - REACTIVITY DATA

Stability - Conditions to avoid: None known

Incompatibility: Acids, soft metals, oxidizers

Hazardous Decomposition Products: CO, CO2, oxides of nitrogen

Conditions Contributing to Hazardous Polymerization: Product will not polymerize

(Cont'd on Page 2)

1.19  
5.1  
1.0

EFFECTS OF OVEREXPOSURE (Medical Conditions Aggravated/Target Organ Effects,  
A. ACUTE (Primary Route of Exposure) EYES: Causes burns. Mists of use  
dilution cause irritation. (Primary Route of Exposure) SKIN: May cause  
severe irritation or burns. INHALATION: Mists extremely irritating  
to mucous membranes, upper respiratory tract. INGESTION: Corrosive  
to mouth, throat and stomach.  
B. SUBCHRONIC, CHRONIC, OTHER: None known.

#### VII - EMERGENCY AND FIRST AID PROCEDURES

EYES: Flush with plenty of water for at least 15 minutes. Get  
immediate medical attention. SKIN: Wash with soap and plenty of  
water for at least 15 minutes. If irritation persists, get medical  
attention. INHALATION: Remove to fresh air. If irritation persists,  
get medical attention. INGESTION: Do not induce vomiting. Give 1  
or 2 glasses of milk or water to dilute. Get immediate medical  
attention.

#### VIII - SPILL OR LEAK PROCEDURES

Spill Management: Contain spill. Neutralize with dilute acid and take  
up on inert material for disposal. Flush residue to sewer with  
plenty of water.

Waste Disposal Methods: Unused material is hazardous waste (D002,  
characteristic of corrosivity) due to high pH.

#### IX - PROTECTION INFORMATION/CONTROL MEASURES

Respiratory: Not normally required

Eye: Chemical  
splash goggles  
and face shield

Glove: Rubber

Other Clothing and Equipment: Rubber apron and rubber boots

Ventilation: Local exhaust ventilation recommended to maintain air  
concentrations below established limits.

#### X - SPECIAL PRECAUTIONS

Precautions to be taken in Handling and Storing: Do not get in eyes, on  
skin or on clothing. Do not breathe mist. Wear goggles, gloves and  
protective clothing when handling. Wash thoroughly after handling.  
Additional Information: Use only in well-ventilated areas that will  
maintain air levels below established limits.

Prepared by: D. Godward

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