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## MATERIAL SAFETY DATA SHEET

## I - PRODUCT IDENTIFICATION

US9111Z 6228 XX

COMPANY NAME: Calgon Vestal Laboratories

ADDRESS: 5035 Manchester Avenue  
St. Louis, MO 63110Emergency Telephone No:  
1-800-228-5635 Ext. 075

PRODUCT NAME: Scale Remover 828

Product No.: 1102

Synonyms: Scale Remover

## II - HAZARDOUS INGREDIENTS OF MIXTURES

MATERIAL:	(CAS#)	(ORAL LD50)	% By Wt.	TLV	PEL
#Phosphoric Acid*	(7664-38-2)	(1.5g/kg)	< 40	1mg/m3	1mg/m3
*STEL=3mg/m3					
# Ingredient subject to reporting under Section 313 of Title III (SARA) and 40 CFR 372.					

## III - PHYSICAL DATA

Vapor Pressure, mm Hg: Like Water  
 Evaporation Rate(ether=1): N/A  
 Solubility in H2O: Complete  
 Freezing Point F: N/A  
 Boiling Point F: Like Water  
 Specific Gravity H2O=1 @25C: 1.25

Vapor Density (Air=1)60-90F: Like H2O  
 % Volatile by wt < 5  
 pH @ Solution N/A  
 pH as Distributed: < 1.0  
 Appearance: Clear odorless liquid  
 Odor: Mild chemical odor

## IV - FIRE AND EXPLOSION

Flash Point F: N/AV

Flammable Limits: N/A

Extinguishing Media: Product is not flammable or combustible.

Special Fire Fighting Procedures: Exercise caution when fighting chemical fires. Respiratory protection is essential.

Unusual Fire and Explosion Hazards: Contact with some metals can generate hydrogen gas.

## V - REACTIVITY DATA

Stability - Conditions to avoid: None Known

Incompatibility: Strong caustics, metals, or chlorine containing products.

Hazardous Decomposition Products: Phosphoric acid fumes, phosphorus oxide fumes.

Conditions Contributing to Hazardous Polymerization: N/A

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Scale Remover 828  
VI - HEALTH HAZARD DATA

**EFFECTS OF OVEREXPOSURE (Medical Conditions Aggravated/Target Organ Effects.**  
**A. ACUTE (Primary Route of Exposure) EYES:** Product is extremely irritating to the eyes and may result in eye burns. **SKIN:** (Primary Route of Exposure) Product is severely irritating to skin and can result in skin burns; repeated or prolonged contact with more dilute solutions may result in dermatitis. **INHALATION:** Inhalation of aerosol mist or vapors is irritating to respiratory tract, eyes and throat. Prolonged exposure to high concentration may result in pulmonary edema. **INGESTION:** Ingestion may result in abdominal hemorrhage with severe abdominal pain, nausea, vomiting or loss of consciousness; necrosis of stomach and gastrointestinal tract may also occur.  
**B. SUBCHRONIC, CHRONIC, OTHER:** No available information was found.

VII - EMERGENCY AND FIRST AID PROCEDURES

**EYE:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek medical aid. **SKIN:** In case of contact, immediately wash with soap and plenty of water for at least 15 minutes while removing contaminated clothing. Seek medical aid. **INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical aid. **INGESTION:** If swallowed, DO NOT induce vomiting. Give large quantities of water. Seek medical aid. Never give anything by mouth to an unconscious person.

VIII - SPILL OR LEAK PROCEDURES

**Spill Management:** Contain spill. Cover the contaminated surface with sodium bicarbonate or a soda ash-slaked lime mixture (50-50). Mix and add water if necessary to form slurry. Scoop up slurry & wash residue down the drain with excess water. Wash site with soda ash solution.

**Waste Disposal Methods:** Dispose of in accordance with all federal, state and local regulations.

IX - PROTECTION INFORMATION/CONTROL MEASURES

<b>Respiratory:</b> For high concentrations of vapor or mist, use NIOSH-approved respirator.	<b>Eye:</b> Chem Splash Goggles or Full Face Shield	<b>Glove:</b> Rubber Gloves
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**Other Clothing and Equipment:** Rubber apron and boots.

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

X - SPECIAL PRECAUTIONS

**Precautions to be taken in Handling and Storing:** Avoid breathing vapors or mists. Do not get in eyes, on skin or clothing.

**Additional Information:** Wash thoroughly after handling. Keep container closed when not in use.

Prepared by: D. Godward

Revision Date: 12/16/91

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