



# MATERIAL SAFETY DATA SHEET

## SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	Descaler	PACK	4 / 1 gal.
PRODUCT CODE	4533188		

### EMERGENCY TELEPHONE NUMBERS

ISSUE DATE	02-10-01
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Medical Information: (800) 228-5635 x161

Transportation: (800) 424-9300 \*

\* For spill, leak, fire or transport accident emergencies.

Product Information: (281) 584-1790

MANUFACTURER            Sysco Chemical  
STREET ADDRESS        1390 Enclave Parkway  
CITY, STATE, ZIP        Houston, Texas 77077

## SECTION 2 -- COMPOSITION / INFORMATION ON INGREDIENTS

### HAZARDOUS COMPONENT

### EXPOSURE LIMITS

* -- (see note below)	CAS No.	% by wt.	OSHA PEL	ACGIH TLV	NIOSH REL
* Phosphoric acid	7664-38-2	30	1 mg/m3 TWA 3 mg/m3 STEL	1 mg/m3 TWA 3 mg/m3 STEL	1 mg/m3 TWA 3 mg/m3 STEL
Hydroxyacetic acid	79-14-1	14	DuPont AEL is 10 mg/m3 TWA	None	None

\* -- Asterisk ingredients are those considered hazardous according to the criteria of 29CFR 1910.1200.  
Other ingredients are listed for informational purposes to assist emergency medical response personnel.

## SECTION 3 -- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	Causes severe chemical burns. Harmful or fatal if swallowed. Eye contact may cause blindness. Vapors irritating to respiratory tract.
POTENTIAL HEALTH EFFECTS	
INGESTION .....	Corrosive and causes chemical burns to mouth, throat and stomach. May be fatal if swallowed.
INHALATION .....	Vapors or mist harmful or irritating if inhaled. Symptoms include a burning taste, sneezing, coughing and difficulty breathing.
EYE CONTACT .....	Severely corrosive to the eyes, and may cause permanent damage, including blindness.
SKIN CONTACT .....	Severely irritating to skin; can cause chemical burns.

**SECTION 4 -- FIRST AID MEASURES**

INGESTION	If swallowed, DO NOT induce vomiting. Immediately drink a large quantity of water. Never give anything by mouth to an unconscious person. <b>Get medical attention immediately.</b>
INHALATION	If exposed to excessive levels of vapors, remove to fresh air and get medical attention if cough or other symptoms develop. People with asthma or other lung problems may be more susceptible to injury.
EYE CONTACT	Immediately flush eye with plenty of cool, running water. Remove contact lenses if applicable, and continue flushing for at least 15 minutes, holding eyelids apart to ensure thorough rinsing of the entire eye. <b>Call a physician immediately.</b>
SKIN CONTACT	Immediately flush skin with plenty of cool running water for at least 15 minutes. Wash with soap and water. If irritation develops or persists, get medical attention. Remove contaminated clothing and shoes; wash before reuse.
NOTE TO PHYSICIAN	Information pertaining to ingestion toxicology, therapy, symptomatology and treatment can be found in <u>Clinical Toxicology of Commercial Products</u> , authored by Gosselin, Smith and Hodge and published by Williams & Wilkins, Baltimore, Maryland. <b>See listing for Acid in Therapeutics Index, Section III.</b>

**SECTION 5 -- FIRE FIGHTING MEASURES**

FLASH POINT / METHOD	None / N.A.	FLAMMABLE LIMITS	Not flammable or combustible
EXTINGUISHING MEDIA	If involved in a fire, foam, carbon dioxide, dry chemical or water.		
SPECIAL FIRE FIGHTING PROCEDURES	None		
FIRE AND EXPLOSION HAZARDS	None		

**SECTION 6 -- ACCIDENTAL RELEASE MEASURES**

RESPONSE TO SPILLS	Small spills: Flush to sanitary sewer. Mop up residue and rinse area thoroughly with water. Large spills: Dike or dam spill. Pump to containers or soak up on inert absorbent. Unused product as a waste is corrosive (D002) by RCRA criteria.
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**SECTION 7 -- HANDLING AND STORAGE**

HANDLING PRECAUTIONS	Wash hands before eating. Keep container tightly closed when not in use.
STORAGE PRECAUTIONS	Store in a cool dry place. Keep from freezing.

**SECTION 8 -- EXPOSURE CONTROLS / PERSONAL PROTECTION**

HYGIENIC PRACTICES	Observe label precautions; use personal protective equipment. Avoid breathing mists or vapors of this product.
ENGINEERING CONTROLS	Local exhaust ventilation may be necessary during prolonged use conditions. <b>Facilities using this product must be equipped with an eyewash station.</b>

## PERSONAL PROTECTIVE EQUIPMENT

X	<b>RESPIRATOR</b>	Respiratory protection recommended where vapor concentrations are high
X	<b>GOGGLES / FACE SHIELD</b>	Chemical splash goggles <b>Required</b> ; also use face shield if exposure is severe
X	<b>APRON</b>	Recommended to protect skin and clothing during use
X	<b>GLOVES</b>	<b>Required</b> ; use PVC, Neoprene or Nitrile with long gauntlet or protective cuff
	<b>BOOTS</b>	Not necessary

**SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Clear green liquid	BOILING POINT	> 212 deg F
ODOR	Bland	FREEZING POINT	Not established
pH	1.0 (100% concentrate)	VAPOR PRESSURE	Not established
SPECIFIC GRAVITY	1.250	VAPOR DENSITY	Not established
SOLUBILITY IN WATER	Complete	EVAPORATION RATE	Not determined

**SECTION 10 -- STABILITY AND REACTIVITY**

CHEMICAL STABILITY		<b>STABLE</b>	X		<b>UNSTABLE</b>	
<b>CONDITIONS TO AVOID</b>	Do not mix with anything but water. <b>Do not mix with bleach, chlorinated detergents or sanitizers -- will cause hazardous vapors.</b>					
INCOMPATIBILITY	Can react violently with alkaline materials. Reacts with metals, oxidizing agents, cyanides and sulfides to form dangerous gases.					
HAZARDOUS PRODUCTS OF DECOMPOSITION	None					
POLYMERIZATION		<b>WILL NOT OCCUR</b>	X		<b>MAY OCCUR</b>	
<b>CONDITIONS TO AVOID</b>	Not applicable					

**SECTION 11 -- TOXICOLOGICAL INFORMATION**

## CARCINOGENICITY

	THIS PRODUCT CONTAINS A KNOWN OR SUSPECTED CARCINOGEN
X	<b>THIS PRODUCT DOES NOT CONTAIN ANY KNOWN OR ANTICIPATED CARCINOGENS ACCORDING TO THE CRITERIA OF THE NTP ANNUAL REPORT ON CARCINOGENS AND OSHA 29 CFR 1910, Z</b>

## OTHER EFFECTS

<b>ACUTE</b>	Not determined
<b>CHRONIC</b>	Not determined

**SECTION 12 -- ECOLOGICAL INFORMATION**

BIODEGRADABILITY		CONSIDERED BIODEGRADABLE	X		NOT BIODEGRADABLE	
BOD / COD VALUE	Not established					
ECOTOXICITY	No data available					

**SECTION 13 -- DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD	Product that cannot be used according to the label must be disposed of as a hazardous waste at an approved hazardous waste management facility. Empty containers may be triple rinsed, then offered for recycling or reconditioning; or puncture and dispose of in a sanitary landfill.								
RCRA CLASSIFICATION	Hazardous, corrosive D002								
RECYCLE CONTAINER		YES	X		CODE	2 - HDPE		NO	

**SECTION 14 -- TRANSPORT INFORMATION**

DOT CLASSIFICATION		HAZARDOUS	X		NOT HAZARDOUS	
DESCRIPTION	PHOSPHORIC ACID, SOLUTION, 8, UN 1805, III					
SYSCO HM CODE	HM 0046					

**SECTION 15 -- REGULATORY INFORMATION**

## REGULATORY STATUS

	EPA REGISTERED (UNDER FIFRA)	
	FDA REGULATED	
X	KOSHER	
X	SARA TITLE III MATERIAL	Phosphoric acid (Section 304)
X	USDA AUTHORIZED	Category A3
X	CANADA WHMIS	Controlled Product, Class E - Corrosive Material

**SECTION 16 -- OTHER INFORMATION**

## NFPA CLASSIFICATION

2	BLUE	HEALTH HAZARD
0	RED	FLAMMABILITY
1	YELLOW	REACTIVITY
--	WHITE	SPECIAL HAZARD

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