MATERIAL SAFETY DATA SHEET

Per OSHA-recommended ANSI Z400.1-2004 standard format &
in accordance with European standard format

1. Product and Company Identifcation: **Date of preparation:** September, 2010

Product Name: California Concrete Preparer (Concrete Etching/Treating Compound) No. 4520
Producer: California Products Corporation
150 Dascomb Rd., Andover, MA 01810 (U.S.A.)
All Inquiries to: Tel: (978) 623-9980 Fax: (978) 623-9960
Emergency Information: 24 Hour Contact: CHEM-TEL: (800) 255-3924 (Contract Number: MIS0001450)
International 24 Hr. Emergency Phone: (813) 248-0585

2. Hazards Identification:
EMERGENCY OVERVIEW: **DANGER! CORROSIVE. CAUSES SEVERE IRRITATION AND BURNS TO EVERY AREA OF CONTACT. HARMFUL IF SWALLOWED OR INHALED. AFFECTS THE CARDIOVASCULAR SYSTEM.**

Health Rating: 3 – Severe
Flammability Rating: 0 – None
Physical Hazard Rating: 2 – Moderate

3. Composition/Information on Ingredients:

HAZARDOUS COMPONENT(S)	COMMON NAME(S)	WGT. %	CAS. NO.	
*Phosphoric acid	(same)	<16	7664-38-2	ACGIH TWA 1 mg./m^5
*Zinc chloride	(same)	<12	7646-85-7	(fumes) 1 mg/m^3

4. First Aid Measures:
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion: If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire-fighting methods: Product is non-combustible
Fire: Not considered to be a fire hazard. Contact with most metals causes formation of flammable and explosive hydrogen gas.
Explosion: Not considered to be an explosion hazard.
Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire. Water spray may be used to keep fire exposed containers cool. If water is used, use in abundance to control heat and acid build-up.
Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6. Accidental release measures:
Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Neutralize with alkaline material (soda ash, lime), then absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulation (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. Handling and Storage:

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture, incompatibilities, and direct sunlight. Corrosive to mild steel. Store in rubber lined or 316 stainless steel designed for phosphoric acid. Do not wash out container and use it for other purposes. When diluting, the acid should always be added slowly to water and in small amounts. Never use hot water and never add water to the acid. Water added to acid can cause uncontrolled boiling and splashing. Protect from freezing. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls and Personal Protection:

Airborne Exposure Limits:

OSHA Permissible Exposure Limit (PEL): 1 mg/m^3 (TWA)

ACGIH Threshold Limit Value (TLV): 1 mg/m^3 (TWA), 3 mg/m^3 (STEL)

Ventilation System: A system of local and /or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved): If the exposure limit is exceeded, a full face piece respirator with high efficiency dust/mist filter may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties:

Appearance: Clear, colorless liquid

Odor: Odorless

Solubility: Miscible in all proportions in water

Density: 9.9 lbs./gal.

10. Stability and Reactivity:

Stability: Hazardous polymerization will not occur. Stable.

Incompatibilities: Liberates explosive hydrogen gas when reacting with chlorides and stainless steel. Can react violently with sodium tetrahydroborate. Exothermic reactions with aldehydes, amines, amides, alcohols and glycols, azo-compounds, carbamates, esters, caustics, phenols and cresols, ketones, organophosphates, epoxides, explosives, combustible materials, unsaturated halides, and organic peroxides. Phosphoric acid forms flammable gases with sulfides, mercaptans, cyanides and aldehydes. It also forms toxic fumes with cyanides, sulfide, fluorides, organic peroxides, and halogenated organics. Mixtures with nitromethane are explosive.

Conditions to Avoid: Incompatibles.

11. Toxicological Information:

Phosphoric Acid: Oral rat LD_{50}: 1530 mg./kg.; investigated as a mutagen

Oral rat LD_{50}: 350 mg./kg.; investigated as a tumorigen, mutagen, reproductive effector

Cancer Lists:

		NTP Carcinogen	
Ingredient	*Known*	*Anticipated*	*IARC*
Phosphoric Acid (7664-38-2)	No	No	No
Water (7732-18-5)	No	No	No
Zinc Chloride (7646-85-7)	No	No	No

12. Ecological Information:

Environmental Fate: No information found.

Environmental Toxicity: Dangerous to the environment. Very toxic to aquatic organisms; may cause long term adverse effects in the aquatic environment.

13. Disposal considerations:

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transportation Information:

Domestic (Land, D.O.T.)
Proper Shipping Name: Phosphoric Acid Solution
Hazard Class: 8
UN/NA: UN1805
Packing Group: III

15. Regulatory Information:

Chemical Inventory Status – Part 1

Ingredient	*TSCA*	*EC*	*Japan*
Phosphoric Acid (7664-38-2)	Yes	Yes	Yes
Water (7732-18-5)	Yes	Yes	Yes
Zinc Chloride (7646-85-7)	Yes	Yes	Yes

Chemical Inventory Status – Part 2

		Canada	
Ingredient	*Korea*	*DSL*	*NDSL*
Phosphoric Acid (7664-38-2)	Yes	Yes	No
Water (7732-18-5)	Yes	Yes	No
Zinc Chloride (7646-85-7)	Yes	Yes	No

Federal, State & International Regulations – Part 1

	SARA 302		SARA	
Ingredient	*RQ*	*TPQ*	*List*	*Chemi*
Phosphoric Acid (7664-38-2)	No	No	No	--
Water (7732-18-5)	No	No	No	--
Zinc Chloride (7646-85-7)	No	No	No	Zinc

Federal, State & International Regulations – Part 2

Ingredient	*CERCLA*	-RCRA *261.33*	-TSC *8 (d*
Phosphoric Acid (7664-38-2)	5000	No	No
Water (7732-18-5)	No	No	No
Zinc Chloride (7646-85-7)	1000	No	No

Chemical Weapons Convention: No TSCA 12 (b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
Reactivity: No (Pure/Liquid)

Australian Hazchem Code: 2R
Poison Schedules S5 & S6
WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information:

Note: Per 29CFR 1910.1200 (g) (2) (1) (C) (2), only hazardous substances present in excess of 1.0% by weight (or 0.1% for carcinogens) must be listed on an MSDS.

HMIS Ratings: Health: 3 Flammability: 0 Physical Hazard: 2
Label Hazard Warning: DANGER! CORROSIVE. CAUSES SEVERE IRRITATION AND BURNS TO EVERY AREA OF CONTACT. HARMFUL IF SWALLOWED OR INHALED.
Label Precautions: Do not get in eyes, on skin, or on clothing. Keep container closed. Use only with adequate ventilation. Do not breathe vapor or mist. Wash thoroughly after handling.
Label First Aid: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In all cases call a physician immediately.

To comply with New Jersey DOH Right-To-Know labeling law (NJAC 8:59 – 5.1 & 5.2)

CAS. No.:	CHEMICAL INGREDIENTS
7732-18-5	Water
7664-38-2	Phosphoric Acid
7646-85-7	Zinc Chloride

HMIS HAZARD RATING			
Health 3	Flammability 0	Physical Hazard 2	Personal Protection H
HAZARD INDEX			
0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe			
PERSONAL PROTECTION CODE:			
H=Splash goggles, rubber gloves, rubber apron, vapor respirator			