

MATERIAL SAFETY DATA SHEET

Product Name: P.C.- 57

Product No. 089.00

SAVIN PRODUCTS COMPANY, INC.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: P.C.-57 METAL SURFACE CONDITIONER

Emergency phone: Chemtrec 800-424-9300

Product Information: 781-961-2744

Company: SAVIN PRODUCTS COMPANY, INC.
214 HIGH STREET
RANDOLPH, MA 02368

Date Prepared: 6-15-04

Supersedes: 10-02-03

Prepared By: KJS

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Exposure Limits	Typical % by weight
1. Phosphoric acid	7664-38-2	OSHA PEL: TWA 1 mg/m ³ TLV: 1 mg/m ³ (ACGIH 1999).	10 - 20
2. 2-Butoxyethanol	111-76-2	OSHA PEL: TWA 50 ppm (240 mg/m ³) [skin]	10 - 20
3. Isopropyl Alcohol	67-63-0	OSHA PEL: TWA 400 ppm TLV: 400 ppm (as TWA) ACGIH 1998). TLV: (as TWA) 20 ppm: (ACGIH 2003).	1- 10

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: Corrosive! Combustible! Causes eye redness and burns. Causes skin burns. Inhalation of mist causes irritation to respiratory tract. Harmful if swallowed. Wash thoroughly after handling. Do not take internally.

EFFECTS of OVEREXPOSURE:

CARCINOGENICITY:

NTP: No

IARC: No

OSHA: No

EYES: Cause severe eye irritation. Can cause burns.

SKIN: Causes skin blisters and burns.

INHALATION: Mist causes irritation to mucous membranes and respiratory tract.

INGESTION: Causes abdominal pain and burns of GI tract.

CHRONIC EFFECTS and MEDICAL CONDITIONS: The effects of long-term, low-level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposure. This product may aggravate existing eye, skin and respiratory conditions.

4. FIRST AID MEASURES

EYES: Flush with copious amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get immediate medical attention.

SKIN: Immediately flush with water. Remove contaminated clothing. Launder contaminated clothing before reuse.

INHALATION: Remove to fresh air. If breathing is difficult, oxygen may be given, preferably with a physician's advice. Get medical attention.

INGESTION: If swallowed, give several glasses of water. Do not induce vomiting. If vomiting does occur, give fluids again and keep head below hips to help prevent aspiration. Do not give anything by mouth to an unconscious person. Get immediate medical attention.

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5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

Flash Point: 110° F Test: SETA CC, ASTM D-3278
Explosive Limits: LEL: N/A UEL: N/A

EXTINGUISHING MEDIA: Use water spray for or foam, dry chemical, CO2. Diluting with water will reduce combustion hazard. Use procedures most appropriate to surrounding fire.

UNUSUAL FIRE and EXPLOSION HAZARDS: Large spills in a confined area could result in vapor concentrations which may produce a more serious fire hazard. NFPA/OSHA CLASS II Combustible!

FIREFIGHTING INSTRUCTIONS: Firefighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

6. ACCIDENTAL RELEASE MEASURES

WARNING: Combustible Material! Eliminate all ignition sources. Ventilate area!

SMALL SPILLS: Soak up small spills with inert solids. Use suitable disposal container that is grounded and bonded.

LARGE SPILLS: Evacuate Area! Wear appropriate respirator & protective clothing. Remove leaking containers to open air. Dilute spill with water to reduce combustion hazard. Absorb with sand, dirt or clay absorbents and deposit in suitable disposal containers and remove outside.

7. HANDLING AND STORAGE

Store in a clean, cool, ventilated area away from sources of ignition. Refer to NFPA 30 & OSHA 29CFR 1910.106 "Storage & Handling Combustible Liquids". Clean up spills at once. Electrically grounded handling equipment recommended. Keep container tightly closed when not in use. Protect containers from damage. Always wear appropriate protective clothing. Wash thoroughly after handling. Use only plastic or other acid resistant material in use and handling.

SLIPPERY UNDERFOOT! FOR COMMERCIAL USE ONLY!

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Avoid splashing. Wear chemical-resistant safety goggles or face shield if necessary. Contact lenses must not be worn.

PROTECTIVE GLOVES: Protective gloves for prolonged exposure. Avoid contaminating clothes and shoes.

RESPIRATORY PROTECTION: For prolonged exposure use NIOSH/MSHA approved respiratory protection equipment.

VENTILATION: Provide general ventilation or approved exhaust system.

OTHER PROTECTIVE EQUIPMENT: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, light amber, thin liquid.

BOILING POINT: 180 – 340°F @ 1ATM

VAPOR PRESSURE (mm): ca 20 mm Hg @ 70°F

VAPOR DENSITY (air=1): ca 1.5 X Air

EVAPORATION RATE: ca water

SOLUBILITY IN WATER: Complete.

DENSITY: 9.0 lb./gal. @ 20C

pH(as is): <2.0

ODOR: Mild Alcohol odor.

ODOR THRESHOLD (ppm): Not determined.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID): Stable.

INCOMPATIBILITY: Strong alkalis, strong oxidizing agents, aqua ammonia, hypochlorites. May form hydrogen with metals.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon Dioxide and other toxic gases when burning.

HAZARDOUS POLYMERIZATION: None

11. TOXICOLOGICAL INFORMATION

No LD50 or LC50 found for oral, dermal or inhalation routes of administration.

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12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL/CHEMICAL FATE INFORMATION: Toxic to aquatic life. Total phosphorous content P = 3.4%

13. DISPOSAL CONSIDERATIONS

RCRA: This product, if disposed as shipped, is considered a hazardous waste (CORROSIVE) as specified in 40 CFR 261. Dilute solutions of this product with a pH of ≤ 2 are classified as hazardous waste. Dispose in accordance with all applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

SHIPPING NAME: Corrosive Liquids, Flammable, n.o.s. (Phosphoric acid, Isopropyl alcohol)
HAZARD CLASS: 8
ID# UN2920
PACKING GROUP: II
LABEL: CORROSIVE and FLAMMABLE

15. REGULATORY INFORMATION

This material does not contain nor was it manufactured using ozone-depleting chemicals.

U.S. FEDERAL REGULATIONS:

TSCA STATUS: All ingredients on Toxic Substance Control Act Inventory.

CERCLA REPORTABLE QUANTITY: Phosphoric Acid (5000 lbs)

SARA TITLE III:

Section 302 Extremely Hazardous Substances:	None.
Section 311/312 Hazardous Categories:	Fire Hazard/Immediate (Acute)
Section 313 Toxic Chemicals:	Glycol Ether Category N230; 2-Butoxyethanol (CAS # 111-76-2)

16. OTHER INFORMATION

All label precautions must be observed when handling, storing and transporting empty containers due to product residues. Do not reuse this container unless it is professionally cleaned and reconditioned.

REFERENCES:

- U.S. Dept. of Health and Human Services, NIOSH: Registry of Toxic Effects of Chemical Substances, 1985-86 Edition.
- Sax, N. Irving and Lewis, R.J.: Dangerous Properties of Industrial Materials, 7th Edition, Van Nostrand Reinhold Co., 1989.
- Lewis, R.J.: Hawley's Condensed Chemical Dictionary, 12th Edition, Van Nostrand Reinhold Co., 1993.
- U.S. Dept. of Transportation, U.S. Coast Guard: CHRIS Hazardous Chemical Data, 1982.
- U.S. Dept. of Labor, OSHA: Air Contaminants - Permissible Exposure Limits, 1989.
- National Fire Protection Association (NFPA): Fire Protection Guide on Hazardous Materials (NFPA 325M/49/491M/704), 9th Edition, 1986.
- National Fire Protection Association (NFPA): Hazardous Materials Response Handbook, Henry, M.F., Editor, 1989.
- Merck & Co., Inc.: The Merck Index, 11th Edition, 1989.

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