

MATERIAL SAFETY DATA SHEET

Product Name: TILE AND PORCELAIN CLEANER

Product No. 025.00

SAVIN PRODUCTS COMPANY, INC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: TILE & PORCELAIN CLEANER

Emergency phone: Chemtrec: 800-424-9300

Product Information: 781-961-2744

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

Date Prepared: 3-09-04

Supersedes: 10-02-00

Prepared by: KJS

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Exposure Limits</u>	<u>Typical % by Weight</u>
1. Nonylphenol Ethoxylate	9016-45-9	N/A	1 - 5
2. Phosphoric acid	7664-38-2	OSHA PEL: TWA 1 mg/m ³ TLV: 1 mg/m ³ (ACGIH 1999)	10 - 20

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: Causes eye irritation. May cause skin irritation with prolonged contact. Vapors or mist may cause respiratory tract irritation. Harmful if swallowed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

EFFECTS of OVEREXPOSURE:

CARCINOGENICITY:

NTP: No

IARC: No

OSHA: No

EYES: May cause severe eye irritation.

SKIN: Repeated or prolonged contact may cause skin irritation.

INHALATION: Mist may cause irritation to nasal and respiratory tract.

INGESTION: May result in gastric distress and nausea. May cause burns to Gastro-intestinal 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: >200°F Test: Tag Closed Cup (Method D-56)

Explosive Limits: LEL: N/A UEL: N/A

EXTINGUISHING MEDIA: Use water spray, dry chemical, CO₂ or "alcohol" foam.

SPECIAL PROCEDURES & UNUSUAL HAZARDS: Combustion may produce noxious and irritating gases which require fresh air source in fire fighting. Acids react with many metals to release Hydrogen gas which can form explosive mixtures with air.

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

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS: Cover contaminated surface with Sodium Bicarbonate or a Soda Ash/Slaked Lime mixture (50/50). Mix and add water if necessary to form a slurry. Scoop up slurry and wash with Soda Ash solution.

LARGE SPILLS: Limit access to area. Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

CAUTION: Floor may become slippery in the spill area.

7. HANDLING AND STORAGE

Handle according to good manufacturing and warehousing practices. Use good personal hygiene practices. Wash hand before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Store only in tightly closed containers away from heat, strong alkalis and reactive metals. Always add product to water when diluting is called for.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

PROTECTIVE GLOVES: Depending on conditions of use, protective gloves, apron, boots, head and face protection should be worn. This equipment should be cleaned thoroughly after each use.

RESPIRATORY PROTECTION: Avoid inhaling spray or mist. Where exposure through inhalation may occur from use, NIOSH/MSHA approved respiratory protection equipment is recommended.

VENTILATION: Ventilation is required in case of mist conditions. Either local exhaust or general room ventilation is usually adequate.

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, pink, thin, foamy liquid

BOILING POINT: approx. 212-220°F @ 1ATM

FREEZE/MELT POINT: approx. 32°F

VAPOR PRESSURE (mm): Not Determined

VAPOR DENSITY (air=1): Not Determined

EVAPORATION RATE: ca water

SOLUBILITY IN WATER: Complete.

SPECIFIC GRAVITY: 1.140 @ 20°C

DENSITY: 9.2 lb/gal

pH(1% Soln.): Less than 2

ODOR: Mint

ODOR THRESHOLD (ppm): Not determined.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY : Keep away from reactive metals and excessive heat (temperature above 190F)

INCOMPATIBILITY: Strong alkalis

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, Hydrogen gas resulting from contact with reactive metals and other toxic gases.

HAZARDOUS POLYMERIZATION: None

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11. TOXICOLOGICAL INFORMATION

No LD50 or LC50 found for oral, dermal or inhalation routes of administration. Total phosphorous content = < 6%

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL/CHEMICAL FATE INFORMATION: Not available.

13. DISPOSAL CONSIDERATIONS

RCRA: This product, if disposed as shipped, is considered a hazardous waste as specified in 40 CFR 261.22. Dilute solutions of this product with a pH of > 2.0 are not classified as hazardous waste.

Dispose in accordance with all applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

SHIPPING NAME: Compounds, Cleaning Liquid (Phosphoric Acid)

HAZARD CLASS: 8

ID #: NA 1760

PACKING GROUP: III

LABEL: Corrosive

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 (CAS# 7664-38-2) 5000 lbs

Section 302 Extremely Hazardous Substances: None.

Section 311/312 Hazardous Categories: Immediate (Acute)

Section 313 Toxic Chemicals: None

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. ALWAYS ADD ACIDS TO WATER!

REFERENCES:

- U.S. Dept. of Health and Human Services, NIOSH: Registry of Toxic Effects of Chemical Substances, 1985-86 Editions.
- 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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