

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: STEAM-GLO

PRODUCT NO. 115.00

SAVIN PRODUCTS COMPANY, INC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: STEAM-GLO

Emergency phone: Chemtrec: 800-424-9300

Product Information: 781-961-2744

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

Date Prepared: 8-11-06

Supersedes: 10-23-00

Prepared by: JAS

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Exposure Limits</u>	<u>Typical % by Weight</u>
1. Potassium hydroxide	1310-58-3	OSHA PEL: N/A TLV: 2 mg/m ³ (ceiling values) (ACGIH 2000)	1 - 5
2. Tetrasodium salt of Ethylenediamine tetraacetic acid	64-02-8	N/A	1 - 5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: Severe Eye Irritant. Causes 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: Severe Eye irritant. May cause burns.

SKIN: Repeated or prolonged contact may result in burns.

INHALATION: May cause dizziness, nausea and breathing difficulties. May cause burns.

INGESTION: Causes gastric distress and nausea. Can result in damage to mouth, throat, esophagus and stomach.

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: SETA CC. ASTM D-3278
Explosive Limits: LEL: N/A UEL: N/A

EXTINGUISHING MEDIA: Use procedures most appropriate to surrounding fire.

SPECIAL PROCEDURES & UNUSUAL HAZARDS: Not Combustible under test conditions,. Alkaline material which becomes slippery underfoot. Use water to deluge spill and cool containers.

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: Soak up small spills with inert solids. Use suitable disposal container. May be neutralized with vinegar and discharged to local sewer if permitted.

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.

7. HANDLING AND STORAGE

Handle according to good manufacturing and warehousing practices. Keep containers tightly closed when not in use. 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 not made of aluminum. Always add product to water when making solutions. Do Not Freeze.

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 should be worn.

RESPIRATORY PROTECTION: No occupational exposure standards have been developed for this material. 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, Thin, Foamy, Colorless, liquid
BOILING POINT: 212 - 220 F @ 1 ATM
FREEZE/MELT POINT: N/A
VAPOR PRESSURE (mm): ca Water
VAPOR DENSITY (air=1): ca Water
EVAPORATION RATE: ca water
SOLUBILITY IN WATER: Complete
SPECIFIC GRAVITY: 1.04 @ 20 C
DENSITY: 8.7 lb/gal @ 20C
pH(as is): 13.7
ODOR: Mild
ODOR THRESHOLD (ppm): Not determined.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID): Stable.

INCOMPATIBILITY: Keep away from aluminum

HAZARDOUS DECOMPOSITION PRODUCTS: Strong solutions react with Aluminum, Zinc, and Tin to form Hydrogen gas.

Strong Solutions may attack paint & fine finishes

HAZARDOUS POLYMERIZATION: None

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11. TOXICOLOGICAL INFORMATION

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

12. ECOLOGICAL INFORMATION

Toxic to aquatic life. Do not discharge to streams, ponds, or waterways. Surfactant components are biodegradable.

13. DISPOSAL CONSIDERATIONS

RCRA: This product, if disposed as shipped, is considered a hazardous waste as specified in 40 CFR 261.22. Any solution of this product with a pH of < 12.5 is not classified as hazardous waste.

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

14. TRANSPORT INFORMATION

SHIPPING NAME: CORROSIVE LIQUIDS, n.o.s (Potassium hydroxide)

HAZARD CLASS: 8

ID# UN 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: Potassium Hydroxide (CAS# 1310-58-3) (1000 lbs)

SARA TITLE III:

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.

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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