Product Name: KLOROSHEEN

Product No. 029.00

SAVIN PRODUCTS COMPANY, INC.			
1. CHEMICAL PRODUCT AND	O COMPANY IDENTIFICATION		
Product Name: KLOROSHEEN			
Emergency phone: Chemtrec: 800-424-9300		Product Information: 781-961-2744	
214 HIGH	RODUCTS COMPANY, INC. I STREET PH, MA 02368		
Date Prepared: 2/2/04	Supersedes: 9/24/96	Prepared by: KJS	
2. COMPOSITION/INFORMAT	TION ON INGREDIENTS		
Component 1. Potassium Hydroxide		Exposure Limits ACGIH TLV 2 mg/m ³ (ceiling) OSHA PEL 2mg/m ³ (ceiling)	Typical <u>% by Weight</u> 10 - 20
2. Sodium Phosphate, tribasic	7758-29-4	N/A	1 - 10
3. Sodium hypochlorite	7681-52-9	N/A	1 - 5
3. HAZARDS IDENTIFICATIO	N		
	EMERGENCY	OVERVIEW	
DANGER: CORROSIVE damage to respiratory tract. H	. Causes eye burns. May cause sk larmful if swallowed. Avoid conta Avoid breathing mist.	in damage with prolonged contact. ct with eyes, skin and clothing. Wa Do not take internally.	Inhalation of mist can cause sh thoroughly after handling.
EFFECTS of OVEREXPOSURE	3:		
CARCINOGENICITY: NTP: No	IARC: No	OSHA: No	
INGESTION: Harmful if swallo CHRONIC EFFECTS and MED	damage to mucous membranes and wed. Can result in damage to mou ICAL CONDITIONS: The effects of		

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.

exposure. This product may aggravate existing eye, skin and respiratory conditions.

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.

UNUSUAL FIRE and EXPLOSION HAZARDS: Combustion may produce noxious and irritating gases which require fresh air source in fire fighting. May 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: Soak up small spills with inert solids. Use suitable disposal container.

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. 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.

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: 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, pale yellow, thin, liquid. BOILING POINT: approx. 100C @ 1ATM FREEZE/MELT POINT: approx. 0C VAPOR PRESSURE (mm): approx. 10 Hg @ 70°F VAPOR DENSITY (air=1): Not determined. EVAPORATION RATE: approx. water SOLUBILITY IN WATER: Complete. SPECIFIC GRAVITY: 1.200 @ 20°C DENSITY: 9.9 lb./gal. @ 20°C DENSITY: 9.9 lb./gal. @ 20°C pH(as is): 13.0-14.0 ODOR: Mild. chlorine ODOR THRESHOLD (ppm): Not determined.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID): Stable. INCOMPATIBILITY: Strong acids, reactive metals and excessive heat. HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon Dioxide, Phosphorous oxides, hydrogen gas resulting from contact with reactive metals and other toxic gases. HAZARDOUS POLYMERIZATION: None

MATERIAL SAFETY DATA SHEET

Product Name: KLOROSHEEN

11. TOXICOLOGICAL INFORMATION

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

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

14. TRANSPORT INFORMATION

SHIPPING NAME:CORROSIVE LIQUIDS, n.o.s. (Potassium hydroxide, Sodium hypochlorite)HAZARD CLASS:8ID #:UN1760PACKING GROUP:IIILABEL: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:	Sodium Phosphate, tribasic (5000 lbs)
	Potassium Hydtroxide (1000 lbs)
	Sodium Hypochlorite (100 lbs)

SARA TITLE III:

Section 302 Extremely Hazardous Substances: Section 311/312 Hazardous Categories: Section 313 Toxic Chemicals: None. Immediate (Acute) 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: <u>Registry of Toxic Effects of Chemical Substances</u>, 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: <u>Air Contaminants Permissible Exposure Limits</u>, 1989.
 - National Fire Protection Association (NFPA): <u>Fire Protection Guide on Hazardous Materials</u> (NFPA 325M/49/491M/704), 9th Edition, 1986.
 - National Fire Protection Association (NFPA): <u>Hazardous Materials Response Handbook</u>, Henry, M.F., Editor, 1989.
 - Merck & Co., Inc.: The Merck Index, 11th Edition, 1989.

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