

MATERIAL SAFETY DATA SHEET

Product Name: **KLEER BRITE**

Product No. 070.00

SAVIN PRODUCTS COMPANY, INC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: KLEER BRITE

Emergency phone: Chemtrec: 800-424-9300

Product Information: 781-961-2744

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

Date Prepared: 10-24-03

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. Isopropyl Alcohol	67-63-0	OSHA PEL: TWA 400 ppm TLV: 400 ppm (as TWA) ACGIH 1998).	5 - 10
3. 2-Butoxyethanol	111-76-2	OSHA PEL: TWA 50 ppm (240 mg/m ³) skin ACGIH TLV: 25 ppm; skin	2 - 7

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

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

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: High concentrations may cause dizziness and nausea.

INGESTION: Causes gastric distress, Nausea and vomiting

CHRONIC EFFECTS and MEDICAL CONDITIONS: No evidence of chronic hazards known

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: 105° 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 foam.

UNUSUAL FIRE and EXPLOSION HAZARDS: Combustion may produce noxious and irritating gases which require fresh air source in fire fighting.

FIREFIGHTING INSTRUCTIONS: Firefighters should wear positive pressure, self-contained breathing apparatus according to OSHA 29CFR 1010.34 and full protective clothing when appropriate.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS: Combustible material! Eliminate all ignition sources. Ventilate area. Soak up small spills with inert solids. Use suitable disposal container.

LARGE SPILLS: Limit access to area. Wear appropriate respirator and protective clothing. 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

Store in a clean, cool ventilated area away from sources of ignition. Refer to NFPA30 and OSHA 29CFR1910.106 "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.

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 approved respiratory protection equipment is recommended in accordance with 29CFR1910.134.

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, blue, thin, foamy liquid.

BOILING POINT: approx. 100°C @ 1ATM

FREEZE/MELT POINT: approx. 0C

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

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

EVAPORATION RATE: approx. water

SOLUBILITY IN WATER: Complete.

DENSITY: 0.95 g/ml; 8 lbs/gal

pH(as is): 10.2

ODOR: Mild. Ammonia odor

ODOR THRESHOLD (ppm): Not determined.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID): Stable

INCOMPATIBILITY: Strong acids, strong oxidizers and excessive heat.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon Dioxide.

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

ECOTOXICOLOGICAL/CHEMICAL FATE INFORMATION: Not available.

13. DISPOSAL CONSIDERATIONS

RCRA: This product, if disposed as shipped, is not considered a hazardous waste as specified in 40 CFR 261.21
Dispose in accordance with all applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

SHIPPING NAME: Flammable Liquid, n.o.s.(isopropyl alcohol, 2-Butoxyethanol)
HAZARD CLASS: Flammable
ID#: UN1993
PACKAGING GROUP III
LABEL: FLAMMABLE LIQUID

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: None

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 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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