

MATERIAL SAFETY DATA SHEET

IDENTITY: KLING-ON

SECTION I - Manufacturer

Manufactured by:
Ambion Corporation

Emergency Telephone Number: (203) 723-1437 or
if no answer, P-ChEM 1-800-424-5571 (24 hr's.)

Address:
37 Naugatuck Drive Naugatuck, CT 06770

Date Prepared: 28 August 2002

SECTION II - Hazardous Ingredients/Identity Information

Chemical Identity	C.A.S. No.	Weight Percent
Ethylene Glycol Monobutyl Ether	111-76-2	3
Potassium Hydroxide	1310-58-3	15

N.F.P.A. Hazard Rating: Health: 3, Fire: 0, Reactivity: 0, Specific: ALK/COR
Dept. of Transportation Information:
Shipping Name: Compound, cleaning liquid (containing potassium hydroxide)
Hazardous Classification: Corrosive Material ID. No. NA1760
DOT Emergency Response Guide No.: 154

SECTION III - Physical/Chemical Characteristics

Boiling Point	219°F	Specific Gravity (Water = 1)	1.12
Melting Point	10°F(99°C)	Vapor Pressure (mm Hg, 20C)	17
Evaporation Rate (water = 1)	0.9	Vapor Density (Air = 1)	0.8
Solubility in Water (25C)	100%		
Appearance and Odor: Clear, off white, light syrup; Ether-like odor.			

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used): None - TOC, TCC, COC
Flammable Limits: Lower: N/A Upper: N/A
Extinguishing Media: Water, Dry chemical, CO2 or Foam.
Special Fire Fighting Procedures: Fire fighters should wear NIOSH/MSHA approved, self-contained breathing apparatus and protective clothing.
Unusual Fire and Explosion Hazards: None Known.

Section V - Reactivity Data

Stability: Stable Conditions to Avoid: N/A
Incompatibility (Materials to Avoid): Mixing with strong acids may cause spattering and will destroy the effectiveness of the cleaner.
Hazardous Decomposition or Byproducts: N/A
Hazardous Polymerization: Will NOT occur.

MATERIAL SAFETY DATA SHEET

Page 2 of 3

KLING-ON**Section VI - Health Hazard Data**

Route(s) of Entry: Inhalation: Possible Skin: Possible Ingestion: Unlikely

Possible Health Hazards (Acute and Chronic):

Acute:

Inhalation: Anesthetic or narcotic effects and irritation of the nose or throat at high concentrations.

Skin Contact: Prolonged or repeated exposure will cause skin irritation. Repeated contact may cause drying or flaking of skin. A single prolonged skin exposure is not likely to result in absorption of harmful amounts.

Ingestion: Single dose oral toxicity is moderate.

Eye contact: Will cause pain and irritation. Direct contact with the liquid or exposure to its mists may cause burning, tearing and redness.

Chronic: Pregnant rats and rabbits exposed during organogenesis to concentrations of ethylene glycol butyl ether up to 200 ppm showed maternal toxicity and toxicity to the conceptus, but no teratogenicity.

First Aid:

Eyes: Irrigate immediately with plenty of water for at least 15 minutes. Move victim to fresh air for irritation caused by vapors. If irritation persists, get medical attention.

Skin: Remove contaminated clothing. Wash off in flowing water. If irritation persists, seek medical attention.

Inhalation: Remove to fresh air. If not breathing, give mouth to mouth resuscitation. If breathing is difficult, give oxygen. Call a physician. Ingestion: Do not induce vomiting. Give large amounts of water, fruit juice or milk and transport to medical facility.

Medical Conditions Aggravated by Exposure: None known.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled: Take steps to prevent eye or skin contact. Do not breathe vapors. Contain spill to minimize contaminated area and facilitate salvage or disposal. To clean up spill, mop up or use absorbent. Avoid run off into storm sewers and courses leading outside. All clean up and disposal should be carried out in accordance with federal, state and local regulations.

Waste Disposal Method: This product is a hazardous material should be disposed by a federally approved Hazardous Waste Disposal plant.

Precautions to Be Taken in Handling or Storing: Handle with reasonable care. Avoid breathing vapors. Avoid skin and eye contact. Keep containers tightly closed. Store in cool dry place. Use product with ventilation.

Other Precautions: None

MATERIAL SAFETY DATA SHEET

Page 3 of 3

KLING-ON

Section VIII - Control Measures

Exposure Guidelines:**Ethylene Glycol Butyl Ether:**

NIOSH TLV: N/A OSHA PEL: 50 ppm ACGIH Limit Value: 25 ppm, skin
NTP Carcinogen: Not Listed IARC Carcinogen: Not listed
Mutagenic: Not listed Teratogenic: Not listed
Reproductive Toxicity: See below, "Chronic."

Potassium Hydroxide:

NIOSH TLV: 2 mg./cub. m., 15 min. ceiling OSHA PEL: 2 mg./cub. m.
ACGIH Limit Value: 2 mg./cub. m.
NTP Carcinogen: Not Listed IARC Carcinogen: Not listed
Mutagenic: Not listed Teratogenic: Not listed
Reproductive Toxicity: No Known Study

Ventilation: Control airborne concentrations below the exposure guideline. Use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations. If material is to be sprayed, be sure to provide proper ventilation.

Respiratory Protection: Atmospheric levels should be maintained below exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. For emergency and other conditions where the exposure guideline may be greatly exceeded, use an approved positive pressure self-contained breathing apparatus. In confined or poorly ventilated areas, use an approved positive pressure self-contained breathing apparatus.

Skin Protection: For brief contact, no precautions other than clean body-covering clothing should be needed. When long or frequently repeated contact could occur, use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full body suit will depend on the operation.

Eye Protection: Use chemical workers goggles.

Other Protective Clothing and Equipment: A source of clean water should be available in the work area for flushing eyes and skin.

Work/Hygienic Practices: Keep containers covered. Avoid breathing vapors, mists and sprays.
