Material Safety Data Sheet

SECTION 1: Chemical Product and Company Identification

Manufacturer: Cumberland Swan
One Swan Drive
Smyrna, TN 37167

Date: November 1999

Product: Ethyl Rubbing Alcohol 70%

Telephone: (615) 459-8900
24hr Emergency: (615) 459-8900 ext. 5270

SECTION 2: Composition / Information on Ingredients

Name: Ethyl Alcohol CAS#:64-17-5
Water

SECTION 3: Hazards Identification

Prolonged exposure to elevated concentrations of vapors may result in irritation to the eyes, nose, throat.

Potential Routes of Exposure: Ingestion, inhalation, dermal contact, eye contact
Target Organs: Eyes, skin, respiratory system

Symptoms of Overexposure:

Inhalation:	Mild irritation of eyes, nose and throat. Headache and drowsiness may occur.
Ingestion:	Drowsiness, headache
Dermal Contact:	Dry, cracking skin
Acute Effects:	Irritation as noted above.
Chronic Effects:	Chronic exposure can result in skin irritation and contact dermatitis. Pre-existing disorders of the skin, eyes, and respiratory tract may be exacerbated by exposure to the ethyl alcohol.

HMIS: H=1, F=3, R=0 See Section 8 for PPE information

SECTION 4: First Aid Measures

Eye:	Flush eyes with copious amount of water for at least 15 minutes.
Skin:	Flush with water. If irritation persists, seek medical attention.
Ingestion:	Seek medical attention or contact the poison control center.
Inhalation:	Remove victim to fresh air and provide oxygen if breathing is difficult. Seek medical attention if breathing continues to be difficult.

SECTION 5: Fire Fighting Measures

Extinguishing Media: Use water fog, alcohol foam, dry chemical or CO2

Unusual Fire or Explosion Hazards: Containers exposed to intense heat from fires should be cooled with large amounts of water to prevent buildup of internal pressure due to vapor generation which could result in container rupture.

Recommendations: Clear area of unprotected personnel. Wear complete turnout gear. Cool containers exposed to fire with water.

SECTION 6: Accidental Release Measures

Large Spills: Eliminate all ignition sources. Equipment must be grounded to prevent sparking. Contain source of spill. Dike or otherwise confine spilled product. Uncontrolled releases to air, land, or water may be reportable to the National Response Center (1-800-424-8802).

Small Spills: Wash with water.

SECTION 7: Handling and Storage

Storage Requirements: Store in tightly closed containers in a cool, dry area away from heat and other possible ignition sources.

Handling precautions: Use non-sparking tools to open containers. Maintain appropriate class of fire extinguishers nearby in case of fire.

SECTION 8: Exposure Controls / Personal Protection

OSHA PEL = 1000ppm OSHA STEL=N/A IDLH=3,300ppm

Recommended Engineering Controls: Use explosion-proof ventilation equipment as necessary to maintain airborne concentrations below the PEL. Ground all containers to prevent static sparks during fluid transfers.

Recommended Admin Controls: Train employees on the hazards of Alcohols

PPE: Goggles, gloves

Recommended Hygiene Practices: Clean PPE and work clothing contaminated with Ethyl Rubbing Alcohol prior to reuse. After working with this product, be sure to wash before eating, smoking, drinking, or applying cosmetics.

SECTION 9: Physical and Chemical Properties

Appearance: Clear Liquid
Odor: Ketone odor
Odor Threshold: N/A
Vapor Pressure: 52 @ 68 ^{0} F
Boiling Point: 133-214 ^{0} F
Freezing Point: N/A
Water Solubility: Miscible
Molecular Weight: N/A
Specific Gravity: 0.8149
Flash Point: 60^0 F
Autoignition: N/A
LEL: N/A
UEL: N/A
Vapor Density: N/A

SECTION 10: Stability and Reactivity

Stability: Stable
Polymerization: Will not occur
Conditions to avoid: Heat, sparks, and open flame
Hazardous Products of Decomposition: CO and unidentified organic compounds may be formed

SECTION 11: Toxicological Information

LD_{50}: 14 K/Kg(Oral) LC_{50}: 9.4ml/Kg(Dermal) LD_{LO}: N/A
Carcinogenicity: Not identified as a carcinogen by OSHA, IARC, or NTP
Mutagenicity: Not Indicated
Reproductive Effects: Not Indicated

SECTION 12: Ecological Information

Ecotoxicity: N/A **Environmental Fate:** N/A **Soil Absorption/Mobility:** Highly Mobile
Environmental Degradation: Should be removed readily from soils and water by volatilization and biodegradation.

SECTION 13: Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations.
Disposal Regulatory Requirements: Follow applicable Federal, state and local regulations
(If this material becomes a waste material, it would be considered an ignitable Hazardous Waste, Number D001)

SECTION 14: Transport Information

Shipping Name: Consumer Commodity ORM-D

SECTION 15: Regulatory Information

RCRA Hazardous Waste Number/Classification: D001
CERCLA Substance: N/A
CERCLA Reportable Quantity: 10,000 lbs (Default)
SARA 311/312 Codes: N/A
SARA Toxic Chemical: N/A

SECTION 16: Other Information

Prepared by: Cumberland Swan

Sources of Information:29CFR1910.1000;NIOSH Pocket Guide to Chemical Hazards (1993); Occupational Health Guidelines for Chemical Hazards;NFPA Guide to Hazardous Materials - 10th Edition.

Disclaimer: While reasonable care has been taken to ensure the accuracy and completeness of the information regarding the material described herein, it is the purchaser's responsibility to ensure the suitability of such information as it applies to the purchaser's intended use of the material.