Material Safety Data Sheet

SECTION 1: Chemical Product and Company Identification

Manufacturer: Cumberland Swan
One Swan Drive
Smyrna, TN 37167

Date: November 1999

Product: Ammonia Spirits

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

SECTION 2: Composition / Information on Ingredients

Chemical	%	CAS#
Ethyl Alcohol	65.4%	64-17-5
Water	28.2%	N/A
Ammonia	1.4%	7664-41-7
Ammonium Carbonate	3.8%	506-87-6
Nutmeg Oil	0.1%	N/A
Lemon Oil	1.0%	N/A
Lavender Oil	.1%	8000-28-0

SECTION 3: Hazards Identification

Inhalation of concentrations above 1000ppm may cause headache, drowsiness, and lassitude, loss of appetite, and inability to concentrate.

Potential Routes of Exposure: Ingestion, inhalation, dermal contact, eye contact

Target Organs: Eyes, skin, central nervous system

Symptoms of Overexposure:

Inhalation: Exposure to concentrations above 1000ppm may cause headache, drowsiness, lassitude, loss of appetite, inability to concentrate, and irritation of the throat.

Ingestion: Considered to be moderately toxic. (Ethyl Alcohol)

Dermal Contact: May cause mild irritation.

Acute Effects: Irritation as noted above.

Chronic Effects: No data

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. Obtain medical attention if irritation persists.

Skin: Flush with water. If irritation persists, seek medical attention.

Ingestion: Do not induce vomiting if victim is unconscious or drowsy. Otherwise, if within the first 15 minutes, give syrup of ipecac. Call poison control or physician immediately.

Inhalation: Remove victim to fresh air and provided 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 while wearing appropriate PPE. 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: Take up with absorbent material and place in non-leaking container. Seal t tightly and dispose of absorbent.

SECTION 7: Handling and Storage

Storage Requirements: Store in tightly closed containers in a cool, dry , well ventilated area away from heat and other possible ignition sources.
Handling precautions: Maintain appropriate class of fire extinguishers nearby in case of fire.

SECTION 8: Exposure Controls / Personal Protection

OSHA PEL = 50ppm OSHA STEL=35ppm IDLH=500ppm
Recommended Engineering Controls: Use ventilation equipment as necessary to maintain airborne concentrations below the PEL.
Recommended Admin Controls: Train employees on the hazards of Ammonia.
PPE: Wear chemical goggles where the threat of exposure exists. Gloves should be worn and eye wash fountains should be provided for personnel in areas where eye exposure is possible.
Recommended Hygiene Practices: Clean PPE and work clothing contaminated with Ammonia prior to reuse.

SECTION 9: Physical and Chemical Properties

Appearance: Colorless Liquid	**Freezing Point**: - 173 ^{0} F *	**Autoignition**: N/A	
Odor: Aromatic, pungent	**Water Solubility:** Miscible	**LEL:** 3.3% *	
Odor Threshold: .043 ppm (ammonia)	**Molecular Weight:** N/A	**UEL:** 19.0% *	
49 ppm (ethyl alcohol)	**Flash Point:** 61 ^{0} F (TAG) *	**Boiling Point:** 173^{0}F	
Vapor Pressure: 44.6 @ 68^{0}C	**Specific Gravity:** .92 *	**Vapor Density:** 1.59 *	

*Data are for ethyl alcohol. The major component of this mixture.

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}: N/A LC_{50}: N/A 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

SECTION 14: Transport Information

Shipping Name: Medicines, Flammable, Liquid, N.O.S. Packing Group: II
DOT Hazard Class: 3 DOT Label: Flammable Liquid ID# UN1993

SECTION 15: Regulatory Information

RCRA Hazardous Waste Number/Classification: D001
CERCLA Substance: N/A
CERCLA Reportable Quantity: 100 lbs (for ignitable hazardous waste)
SARA 311/312 Codes: Yes (ammonia)
SARA Toxic Chemical: Yes (ammonia)

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.