

#50410
Pg 1

SECTION 1 - IDENTIFICATION

PRODUCT: AMMONIA CAPSULES
CHEMICAL FAMILY: MIXTURE AMMONIUM HYDROXIDE, AMMONIUM
CARBONATE AND DENATURED ALCOHOL
CHEMICAL FORMULA: NA
CHEMICAL TRADE NAME, SYNONYMS: AMOID AMMONIA INHALANT

MANUFACTURED FOR: MUELLER SPORTS MEDICINE, INC
1 QUENCH DRIVE
PRAIRIE DU SAC, WI 53578
Phone: (608)-643-8530

DATE: 1 NOV 91
PREPARED BY: DENNIS J. BREUNIG

SECTION 2 - HAZARDOUS INGREDIENTS

<u>MATERIAL</u>	<u>%</u>		
AMMONIUM HYDROXIDE	59.0	8-HR TWA	25 PPM TLV UNITS
ETHYL ALCOHOL	35.0	8-HR TWA	1000 PPM TLV UNITS

SECTION 3 - PHYSICAL DATA

BOILING POINT (F): 108 DEG F
VAPOR PRESSURE (mm Hg): 279
VAPOR DENSITY (AIR=1) .908
SOLUBILITY IN WATER: COMPLETE
SPECIFIC GRAVITY: .815
% VOLATILE: 100
EVAPORATION RATE: NA
APPEARANCE & ODOR: RED LIQUID WITH ODOR OF AMMONIA

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CATEGORY: FLAMMABLE
FLASH POINT, METHOD: 48 DEG F, CLOSED CUP
EXTINGUISHING MEDIA: DRY CHEMICAL, CARBON DIOXIDE, ALCOHOL
FOAM AND WATER SPRAY
UNUSUAL FIRE AND EXPLOSION HAZARDS: WHEN HEATED, MATERIAL
WILL OMIT AMMONIA VAPORS WHICH NECESSITATES RESPIRATORY
AND EYE PROTECTION.
SPECIAL FIRE FIGHTING PROCEDURES: USE COLD WATER SPRAY TO
CONTROL VAPORS AND COOL FIRE-EXPOSED CONTAINERS AND TO
REDUCE FIRE INTENSITY. A WATER SPRAY MAY BE INEFFECTIVE IN
EXTINGUISHING FIRE.

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I. Manufacturer's Name JAMES ALEXANDER CORPORATION
 Address (number, street) P.O. BOX 461, 400 VALENTINE ST.
 (City, state, zip code) HACKETTSTOWN, N.J. 07840
 Emergency Telephone Number: 201-852-9580
 Information Supplied by: BENJAMIN DAVIDSON
 Date: 19 NOV 87 Title: CHIEF CHEMIST

Product Trade Name AMMONIA INHALANTS
 Chemical Name & Synonyms AMMONIA, WATER & ALCOHOL
 Chemical Family Formula
 National Fire Protection Association 704M Signal (or estimate)
 Health Fire Reactivity Specific Hazard

HAZARDOUS INGREDIENTS	MATERIAL	%	TLV (Units)	MATERIAL	%	TLV (Units)
	AMMONIA	15	50 PPM			
	ALCOHOL	35	UNK			

III. PHYSICAL DATA
 a. Boiling point (°F) LIABLE c. Vapor density (Air=1) LESS THAN 1 g. Evaporation rate (WATER=1) .65
 b. Vapor pressure (mm Hg) UNK d. Solubility in water (%) COMPLETE h. Appearance & odor: SLIGHTLY RED PUNGENT SUFFOCATING ODOR
 e. Specific gravity (H₂O=1) .893
 f. Per cent volatile by volume 35%

IV. FIRE AND EXPLOSION HAZARD DATA
 a. Flash point (state method, °F) 87° OPEN CUP d. Extinguishing media: CO₂, WATER
 b. Ignition temperature (°F) OVER 100°C e. Special fire fighting procedures: N/A
 c. Flammable limits in air, LEL UEL f. Unusual fire and explosion hazards:

V. HEALTH HAZARD DATA
 a. Physiological Properties:
 1. Acute oral toxicity (LD₅₀ if available): 22.6 GMS/KG IN RATS (ESTIMATE)
 2. Local effects to eyes: IRRITATING TO EYES
 3. Local effects to skin: IRRITATING TO MUCOUS MEMBRANES
 4. Sensitizing effects: UNKNOWN
 5. Dermal absorption (LD₅₀ if available): N/A
 6. Inhalation effects (LC₅₀ if available): N/A
 7. Threshold Limit Value (or estimate): 100 PPM (ESTIMATE)

MATERIAL SAFETY DATA SHEET

PAGE 2 OF 2

PRODUCT: AMMONIA CAPSULES

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTE OF EXPOSURE: CONTACT, INGESTION & INHALATION

EFFECTS OF OVEREXPOSURE:

EYE CONTACT - CAN RESULT IN LOSS OF VISION

INGESTION - CAN BE CORROSIVE TO DIGESTIVE TRACT

INHALATION - EXCESSIVE INHALATION OF VAPORS IS IRRITATING TO THE MUCOUS MEMBRANES OF THE RESPIRATORY TRACT AND CAN RESULT IN HEADACHE, COUGHING AND SEVERE LUNG CONGESTION

EMERGENCY AND FIRST AID PROCEDURES:

EYES - FLUSH WITH RUNNING WATER 15 MIN. CONSULT PHYSICIAN

INGESTION - IF CONSCIOUS, PROMPTLY GIVE LOTS OF WATER OR DILUTE VINEGAR OR CITRUS JUICE TO DRINK, FOLLOWED BY MILK. DO NOT INDUCE VOMITING. CONSULT PHYSICIAN.

INHALATION - REMOVE TO FRESH AIR. CONSULT PHYSICIAN.

SKIN CONTACT - FLUSH WITH LOTS OF WATER & REMOVE CLOTHES.

SECTION 6 - REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: HIGH TEMPERATURE AND OPEN FLAME

INCOMPATIBILITY (Materials to avoid): ACID MATERIALS, COPPER, TIN, ZINC, ALUMINUM, AND THEIR ALLOYS AND GALVANIZED SURFACES. VIOLENT REACTIONS CAN OCCUR WITH DIMETHYL SULFATE OR FLUORINE. EXPLOSIVE MATERIALS CAN RESULT FROM REACTION WITH IODINE AND SILVER COMPOUNDS.

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK: VENTILATE AREA AND EVACUATE IF LARGE SPILL.

WASTE DISPOSAL METHOD: SMALL QUANTITY - WASTE RECEPTACLE

SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: SELF CONTAINED BREATHING APPARATUS

VENTILATION: LOCAL AND MECHANICAL EXHAUST

EYE PROTECTION: SPLASH PROOF CHEMICAL SAFETY GOGGLES

OTHER PROTECTIVE EQUIPMENT: RUBBER GLOVES

SECTION 9 - SPECIAL PRECAUTIONS

STORAGE AND HANDLING: STORE IN A COOL DRY AREA

OTHER PRECAUTIONS: NA