api ANALYTAB PRODUCTS
DIVISION OF SHERWOOD MEDICAL

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ADDITIONAL INFORMATION PHONE NO.
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MATERIAL SAFETY DATA SHEET

DATE OF ISSUE: 12/17/85
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APPROVED BY: T Tuddy

SECTION I: PRODUCT IDENTIFICATION

PRODUCT LABEL NAME: N,N-Dimethyl-alpha-Naphthylamine (0.5%)

SECTION II: HAZARDOUS INGREDIENTS

CHEMICAL NAME	COMMON NAMES	% IN PRODUCT	CAS #
5N Acetic Acid	-	99.5%	64-19-7
N,N-Dimethyl-alpha-Naphthylamine	-	0.5%	86-56-6

SECTION III: PRECAUTIONS FOR HANDLING AND USE OF THE PRODUCT

A. SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Flush the contaminated area with copious amounts of water. Absorb diluted spill with rags or other available absorbing materials.

Waste Disposal Method: Dispose of the absorbing material properly.

Dispose of in accordance with Federal, State and Local Regulations.

B. SPECIAL PROTECTION INFORMATION

Respiratory Protection: (Specify type) None required

Ventilation: Local Exhaust Hood Mechanical ____

Other Protective Equipment: Gloves X Eyes X Other ____

C. SPECIAL PRECAUTIONS

Recommended Storage Conditions: Store at room temperature (15-30C)

SECTION IV: HAZARDOUS INGREDIENT INFORMATION

HAZARDOUS INGREDIENT: Acetic Acid RTECS #: AF 1225000

DOT CLASSIFICATION: Corrosive Material CAS: 64-19-7

A. PHYSICAL/CHEMICAL DATA $C_2H_4O_2$

Molecular Formula: $C_2H_4O_2$ Molecular Weight: 60.06

Boiling Point: 118C Melting Point: 16.7C

Vapor Pressure (mm Hg): 11.4 @ 20C Volatile by Volume (%): 100

Vapor Density (air = 1): 2.1 Evaporation Rate (a = 1): 0.97

Solubility in Water: infinitely soluble Specific Gravity (H_2O = 1): 1.05

Appearance: Clear, colorless liquid

a = n butyl acetate

B. FIRE AND EXPLOSION HAZARD DATA

Flash Point (° F): 106 Method Used: closed cup

Flammable Limits: Lower 5.4% Upper 16.0%

Extinguishing Media: CO_2, dry chemical, alcohol foam

Special Fire Fighting Procedures: Wear self-contained breathing apparatus

Unusual Fire and Explosion Hazards: When heated to decomposition, emits toxic fumes.

C. REACTIVITY DATA

Stability: Stable X Unstable ___ Conditions to Avoid: heat and decomposition

Incompatibility (Materials to Avoid): Alkalies, amines and strong oxidizers

Hazardous Polymerization: May Occur ___ Will Not Occur X

Hazardous Decomposition Products and Conditions: Combustion will produce CO_2 and CO

D. HEALTH HAZARD DATA

CARCINOGEN: Yes ___ No X Potential ___

Source: NTP Annual Report ___ IARC Monographs ___ OSHA ___

Other (Specify) NIOSH

Threshold Limit Value or Permissible Exposure Level:

TLV/TWA = 10ppm PEL = ___

Source: OSHA ___ ACGIH X Other (Specify) ___

Effects of Exposure: Liquid - burns to eyes and skin; vapors - irritating to eyes, nose, throat and lungs.

Primary Route(s) of Entry: inhalation, skin and eyes.

Toxicity Data: skn-hmn 50 mg/24H orL-hmn TDLo: 1470 ug/kg; ihl-hmn TCLo: 816ppm/3 Min. unk-man LDLo: 308mg/kg

Emergency/First Aid Procedures: Liquid - Flush skin and eyes with water for at least 15 minutes. Call a physician.

Ingestion - Do not induce vomiting; if patient is conscious give water, milk or milk of magnesia. Call a physician.

Inhalation - Remove to fresh air, give CPR if not breathing. Call a physician.

SECTION IV: HAZARDOUS INGREDIENT INFORMATION

HAZARDOUS INGREDIENT: N,N-Dimethyl-1-Naphthylamine RTECS # QM2825000

DOT CLASSIFICATION: none specified CAS: 86-56-6

A. PHYSICAL/CHEMICAL DATA $C_{12}H_{13}N$

Molecular Formula: $C_{12}H_{13}N$ Molecular Weight: 171.26
Boiling Point: 273.8 Melting Point: NAIF
Vapor Pressure (mm Hg): 13@ 139.4C Volatile by Volume (%): NAIF
Vapor Density (air = 1): NAIF[a] Evaporation Rate (= 1): NAIF
Solubility in Water: insoluble Specific Gravity (H_2O = 1): 1.0391

Appearance: Light yellow liquid

B. FIRE AND EXPLOSION HAZARD DATA

Flash Point (° F): NAIF Method Used: NAIF
Flammable Limits: Lower NAIF Upper NAIF

Extinguishing Media: Water, dry chemical, carbon dioxide

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards: When heated to decomposition, yields toxic fumes of NO_x

C. REACTIVITY DATA

Stability: Stable X Unstable ___ Conditions to Avoid: NAIF

Incompatibility (Materials to Avoid): NAIF

Hazardous Polymerization: May Occur ___ Will Not Occur X

Hazardous Decomposition Products and Conditions: NAIF

D. HEALTH HAZARD DATA

CARCINOGEN: Yes ___ No X Potential ___

Source: NTP Annual Report ___ IARC Monographs ___ OSHA ___
Other (Specify) NIOSH

Threshold Limit Value or Permissible Exposure Level:
TLV TWA = none listed PEL = ___
Source: OSHA ___ ACGIH X Other (Specify) ___

Effects of Exposure: Harmful if absorbed through the skin or inhaled, causes irritation.

Primary Route(s) of Entry: eyes, skin, inhalation, ingestion
Toxicity Data: human: none specified

Emergency First Aid Procedures: Eyes: flush eyes with water for at least 15 minutes. Skin: Wash area with soap and water. Remove contaminated clothing. Call a physician. Inhalation: Remove to fresh air. If breathing is difficult, call a physician. Ingestion: wash mouth with water. Call a physician.

[a] NAIF = no applicable information found