MATERIAL SAFETY DATA SHEET

SECTION I-IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY UNDERTAKING

MSDS NO:
DATE: 3/11/94

EMERGENCY NO: 1-800-255-3924 (CHEMTEL)
INTERNATIONAL ACCESS CODE+1-813-248-0585

REVISION DATE: 6/25/01
Supersedes 5/28/99
PREPARED BY: ELAINE ALTONIAN

GENERAL INFORMATION NO:(203)-454-1800
MANTROSE-HAEUSER CO.

PRODUCT NAME: 25% Ammoniated Shellac Solution

SYNONYMS: 25% Ammoniated Shellac solution w/ Flake or R49 or Regular shellac

CHEMICAL FAMILY: Natural Resin Solution (aqueous)

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION	CAS RN	NOMINAL %	PEL/TLV	HAZARD
Ammonium Hydroxide	1336-21-6	3	50 ppm/TWA	Irritant

SECTION III - HAZARDS: (IDENTIFY)

INGESTION: Not Established.

INHALATION: Vapor or mist may be irritating to nose, throat and lungs.

EYE CONTACT: Liquid or vapor may cause irritation.

SKIN CONTACT: May cause irritation and defatting of skin on prolonged contact.

HMIS RATING: 1/0/0

OTHER: N/A

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SECTION IV - FIRST AID MEASURES

FOR OVEREXPOSURE BY:

INGESTION: Never give anything by mouth if victim is unconscious or having convulsions. *Call a Physician or Poison Control Center immediately.*

CONTACT WITH EYES OR SKIN: Immediately flush affected area with plenty of cool water. Eyes should be flushed for at least 15 minutes. Remove and wash contaminated clothing before re-use. If irritation exists, consult a physician.

INHALATION: Immediately remove victim to fresh air. If victim has stopped breathing, give artifical respiration, preferably mouth-to-mouth. *Get Medical attention immediately.*

SECTION V - FIRE FIGHTING MEASURES

N/A

UNUSUAL FIRE & EXPLOSION HAZARDS:

NFPA RATING: HEALTH ( ), FIRE ( ), REACTIVITY ( )*
(Does not apply to exposure hazards other than during a fire).

SECTION VI - ACCIDENTAL RELEASE MEASURES

Wear appropriate respiratory protection and protective clothing as described in Section VIII. Contain spilled material. Transfer to secure containers. Where necessary, collect using absorbent media. In the event of uncontrolled release of this material, the user should determine if the release is reportable under applicable laws and regulations.

SECTION VII - HANDLING & STORAGE

Use good engineering practices.

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SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Measures: Handle in the presence of adequate ventilation.

Respiratory Protection:. Where exposure is likely to exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminant in air.

Protective clothing: Wear gloves and protective clothing which are inpervious to this product for the duration of anticipated exposure if there is potential for skin contact.

Eye Protection: Use safety glasses. If eye contact *is anticipated*, wear chemical splash goggles meeting specs of ANSI Standard Z87.1..

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES:

BOILING POINT: 100°F* SPECIFIC GRAVITY (H20=1): 1.05
MELTING POINT: No data SOLUBILITY IN WATER: Readily dilutable
VAPOR PRESSURE(mm/HG):17 @20°C EVAPORATION RATE:(Butyl Acetate=1):< 1
VAPOR DENSITY (air 1): < 1 APPEARANCE/COLOR: Clear Amber Solution
pH: N/A FLASH POINT: Non-Combustible ODOR: Characteristic Ammoniacal odor.
FLAMMABLE LIMITS IN AIR, % BY VOLUME: LOWER : N/A UPPER: N/A

SECTION X - STABILITY AND REACTIVITY

STABILITY: Generally Stable HAZARDOUS POLYMERIZATION: Not Likely

CONDITIONS/MATERIALS TO AVOID: Strong oxidizing agernts.

HAZARDOUS DECOMPOSITION PRODUCTS: Burning may produce gaseous ammonia.

SECTION XI - TOXICOLOGICAL INFORMATION

N/A

SECTION XII - ECOLOGICAL INFORMATION

Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

SECTION XIII - DISPOSAL INFORMATION

All recovered material should be packaged, labeled, transported and disposed or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices.

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SECTION XIV TRANSPORTATION INFORMATION

	D.O.T.	ICAO/IATA/EUROPEAN
CLASSIFICATION:	Not restricted.	Not restricted
PROPER SHIPPING NAME:	Liquid shellac, water solution	Liquid Shellac, water solution
ID NUMBER:	N/A.	N/A

SECTION XV - REGULATORY INFORMATION:

N/A

SECTION XVI - OTHER INFORMATION:

Revision Issued to conform to DSD 67/548/EEC , DPD 88/379/EEC and DPD 91/155/EEC.

Revision Log:

Date:	Revision:	By Whom:
5/21/98	Addition of synonym	Steve Santos
5/28/99	HMIS rating inserted	Steve Santos
5/28/99	Section XIV, format	Don Young
6/25/01	Change international access code	DLY

APPROVED BY: Steve Santos **Miscellaneous/25% Ammoniated Shellac solution**

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