



MATERIAL SAFETY DATA SHEET

WATERTHANE 701 SATIN
Water-Based Oil-Modified
Urethane

MSDS Ref. No: 7109
Date Prepared: 07/16/2002
Date Revised: 07/16/2002

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME/USE: WATERTHANE 701 SATIN Water-Based Oil-Modified Urethane

MANUFACTURER

Magee
67 Forest Street
Marlborough, MA 01752

Telephone Number: 1-800-786-2433
Emergency Telephone (24 hours): 1-800-228-5635
CHEMTREC (U.S./Can.): 800-424-9300
CHEMTREC (Int'l): +1 703-527-3887

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>INGREDIENT(S)</u>	<u>CAS#</u>	<u>% BY WEIGHT</u>
Polyurethane Resin	NA	10 - 25
N-Methyl-2-pyrrolidone	872-50-4	3 - 5
Aliphatic Urethane	NA	3 - 5
Triethylamine	121-44-8	1 - 1.5

See Section 8 for Exposure Limits NA - Not Applicable

OSHA REGULATORY STATUS: This product is classified as hazardous under OSHA regulations.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Opaque, Off-White to Light Tan Liquid . Slight Amine Odor. May Cause Eye Irritation. May cause irritation to the skin and respiratory tract.

POTENTIAL HEALTH EFFECTS (See Section 11 for Toxicological Information)

PRIMARY ROUTE(S) OF EXPOSURE: Eye Skin Contact Skin Absorption
 Inhalation Ingestion

EFFECTS OF ACUTE EXPOSURE

EYES: May cause eye irritation. Symptoms may include redness and pain.

SKIN: May cause mild skin irritation. Symptoms may include redness.

INHALATION: High concentrations of vapor or mist may cause nose, throat and respiratory tract irritation. Symptoms may include coughing and a burning sensation in the nose and throat.

INGESTION: May cause mild mouth, throat and stomach irritation. Symptoms may include nausea.

EFFECTS OF CHRONIC EXPOSURE: Prolonged or repeated contact can cause defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

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MEDICAL CONDITIONS AGGRAVATED: May aggravate pre-existing eye, skin and respiratory conditions.

4. FIRST AID MEASURES

EYES: Flush eyes with plenty of water while holding eyelids apart. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Do not put any medication in the victim's eyes unless instructed by a physician. Get medical attention.

SKIN: Flush with water, then wash with soap and water. Remove saturated clothing. Get medical attention if irritation develops.

INHALATION: Remove to fresh air. If not breathing, give respiration; if breathing is difficult, give oxygen (by trained personnel only). Get medical attention if symptoms persist.

INGESTION: Do not induce vomiting. Drink large quantities of water. Get immediate medical attention. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

FLASH POINT AND METHOD: > 93°C (200°F)TCC

FLAMMABLE LIMITS Not Applicable

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

HAZARDOUS COMBUSTION PRODUCTS: Normal products of combustion (carbon monoxide and carbon dioxide) and irritating or toxic vapors and gases.

FIRE AND EXPLOSION HAZARDS: Product may spatter when temperature exceeds boiling point. Polymer film can burn.

FIRE FIGHTING INSTRUCTIONS: Evacuate area. Containers of this material may build up pressure if exposed to heat. Use water spray to cool fire-exposed containers. MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear should be worn.

AUTOIGNITION TEMPERATURE: Not Applicable.

6. ACCIDENTAL RELEASE MEASURES

See Section 8, Exposure Controls/Personal Protection and Section 3, Hazard Identification. Floors may be slippery. Use care to avoid falling. Ventilate spill area. Contain and isolate spill. Keep non-essential personnel from entering spill area. Use mop, absorbent, or wet vacuum to collect material for proper disposal. Rinse area with water.

7. HANDLING AND STORAGE

HANDLING: Follow label use directions. Do not mix with other chemicals unless instructed by label directions. Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing vapor or mist. Wash thoroughly after handling. Remove contaminated clothing. Wash clothing and equipment before reuse.

STORAGE: Keep container closed when not in use. Keep from freezing. Store away from incompatible materials. (See Section 10, Stability and Reactivity).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE: Where eye contact is possible, wear safety glasses with side shields or chemical splash goggles (ANSI Z87.1 approved).

SKIN: Where skin contact is possible, butyl rubber or neoprene gloves should be worn. When additional skin contact is possible, other protective equipment and clothing (e.g., footwear) may be needed.

RESPIRATORY: No respiratory protection is required if general room ventilation is adequate and airborne concentrations are kept below exposure limits. When exposure limits are exceeded, use appropriate respiratory protection (NIOSH/MSHA) to prevent overexposure.

ENGINEERING CONTROLS: Good general room ventilation is expected to be adequate. Local exhaust ventilation (e.g., fans) may

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be necessary when general ventilation does not keep airborne concentrations below exposure limits. The American Industrial Hygiene Association (AIHA) have established a workplace exposure level of 10ppm (TWA) for n-methyl-2-pyrrolidone.

EXPOSURE LIMITS:

<u>INGREDIENT(S)</u>	<u>OSHA PEL/STEL</u>	<u>ACGIH TLV/STEL</u>
Polyurethane Resin	NA	NA
N-Methyl-2-pyrrolidone	NA	NA
Aliphatic Urethane	NA	NA
Triethylamine	25 ppm	1 ppm

NA - Not Available

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Slight Amine

APPEARANCE: Opaque, Off-White to Light Tan

pH: 8 to 9

PERCENT VOLATILE BY WEIGHT: 76

VAPOR PRESSURE: Not Available

VAPOR DENSITY: Not Available

BOILING POINT: Not Available

FREEZING/MELTING POINT: Not Available

SOLUBILITY IN WATER: Dispersible

EVAPORATION RATE: Not Available

SPECIFIC GRAVITY: 1.05

VISCOSITY: 70 to 100cps

(VOC): 181 g/l

OCTANOL/WATER PARTITION COEFFICIENT: Not Available

ODOR THRESHOLD: Not Available

10. STABILITY AND REACTIVITY

STABILITY (CONDITIONS TO AVOID): Stable.

POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION: None known.

INCOMPATIBLE MATERIALS: Oxidizers (e.g., bleach) and strong acids (e.g., hydrochloric acid).

11. TOXICOLOGICAL INFORMATION

ACUTE DATA: No data is available for this product. The following data are available for product ingredients:

<u>PRODUCT/INGREDIENT</u>	<u>ORAL LD₅₀ (rat)</u>	<u>DERMAL LD₅₀ (rabbit)</u>	<u>INHALATION LC₅₀ (rat)</u>
Polyurethane Resin	Not Available	Not Available	Not Available
N-Methyl-2-pyrrolidone	3914 - mg/kg	2200 - 4000 mg/kg	5100 - mg/m ³ (4-hr)
Aliphatic Urethane	Not Available	Not Available	Not Available
Triethylamine	460 - mg/kg	570 - mg/kg	Not Available

SENSITIZATION DATA: No data available.

CHRONIC DATA:

No data available.

REPRODUCTIVE/TERATOGENIC DATA: Prolonged overexposure to high concentrations of n-methyl-2-pyrrolidone by inhalation, ingestion or by the dermal route has caused reproductive and teratogenic effects in laboratory animals

CARCINOGENIC/MUTAGENIC DATA: Not listed as carcinogenic by NTP, IARC, or ACGIH or regulated as a carcinogen by OSHA.

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12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

Disposal of this material should be in accordance with local, state or provincial and federal regulations. The unused product, as manufactured, is a RCRA non-hazardous waste in accordance with 40 CFR 261. The product has not been evaluated by the Toxicity Characteristic Leachate Procedure (TCLP). According to RCRA, it is the responsibility of the waste generator to ensure proper disposal.

14. TRANSPORT INFORMATION

DOT/TDG HAZARDOUS MATERIAL DESCRIPTION: Not regulated

15. REGULATORY INFORMATION

Not meant to be all-inclusive---selected regulations represented.

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Under 40 CFR 370.2, this product meets the following hazard categories: Immediate, Delayed.

313 REPORTABLE INGREDIENTS: n-Methyl-2-pyrrolidone and triethylamine are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Not reportable under CERCLA.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: This product complies with all TSCA inventory requirements.

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

MASSACHUSETTS, NEW JERSEY, PENNSYLVANIA RIGHT-TO-KNOW:

INGREDIENT(S)

Water

Polyurethane Resin

N-Methyl-2-pyrrolidone

Aliphatic Urethane

Triethylamine

NA - Not Applicable

CAS NO.

7732-18-5

NA

872-50-4

NA

121-44-8

STATE LISTING

Not Listed

Not Listed

MA, PA

Not Listed

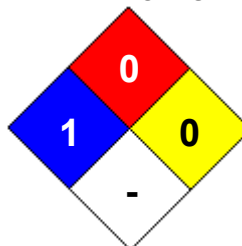
MA, NJ, PA

16. OTHER INFORMATION

HMIS RATING

HEALTH	*	1
FLAMMABILITY		0
REACTIVITY		0
PERSONAL PROTECTION		-

NFPA CODES:



APPROVED BY: Product Safety & Regulatory

MSDS STATUS

Revision No: New MSDS

New MSDS

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APPROVAL DATE: 07/16/2002

The information on this data sheet represents our current data and best opinion as to the proper use in handling of the product under normal foreseeable conditions. Any use of this product which is not in conformance with this data sheet or product label, or which involves using the product in combination with any other product or any other process is the responsibility of the user.