

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****Product Name:** MT-900**Chemical Name:** Aliphatic ketones**Product Use/Class:** Solvent cleaner for removing adhesives.

**Company Information:** Mannington Mills, Inc.  
P.O. Box 30 - Route 45  
75 Mannington Mills Road  
Salem, New Jersey 08079

**Phone Numbers:** General: (856) 935-3000  
Product Emergency: (866) 359-5602  
Spill Response: (800) 424-9300

**Effective Date:** Jan 6, 2009 [Rev. 2]      **Supersedes Date:** November 18, 2003

**Reason for Revision:** Product review and information updating.

**SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS Number	Weight %	Exposure Guidelines				
			ACGIH - TLV		OSHA - PEL		Other
			TWA	STEL	TWA	Ceiling	
Acetone	67-64-1	50-60	500 ppm	750 ppm	1000 ppm		
Methyl Ethyl Ketone	78-93-3	40-50	200 ppm	300 ppm	200 ppm		

**SECTION 3 - HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW****Form:** Clear liquid**Color:** Colorless**Odor:** Sweet ketone odor**WARNING STATEMENTS**

**DANGER!** Extremely flammable liquid and vapor. Vapor harmful. Harmful or fatal if swallowed. Vapors may cause flash fire or explosion. Aspiration hazard if swallowed - can enter lungs and cause damage. Harmful if inhaled.

## POTENTIAL HEALTH EFFECTS

**Primary Routes of Exposure:** Eyes, skin, respiratory system.

- **Eye Contact:** Can cause moderate to severe irritation, blurred vision, and eye damage. Vapors can cause slight to moderate irritation.
- **Skin Contact:** Can cause moderate irritation, de-fatting, and dermatitis. Ingredients in Section 2 are absorbed through the skin into the blood upon contact.
- **Inhalation:** Can cause nasal and respiratory irritation, including dizziness, weakness, fatigue, nausea, difficulty in breathing, headache, possible unconsciousness, and asphyxiation at high exposure levels.
- **Ingestion:** Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. The possibility of aspiration of vapors into the lungs can lead to serious damage and chemical pneumonia.
- **Chronic:** Overexposure to the components of this product have been suggested as a cause of the following effects in laboratory animals: mild, reversible liver and kidney effects. Overexposure in humans: cardiac sensitization, kidney damage.
- **Other:** No information.

*Refer to Section 11 for toxicological information.*

## **SECTION 4 - FIRST AID MEASURES**

**If in Eyes:** Flush with water for 15 minutes. Get immediate medical attention.

**If on Skin:** Wash with soap and water. Call physician if irritation occurs.

**If Inhaled:** Move person to fresh air. Call physician immediately. If breathing stops administer artificial respiration and get immediate medical attention.

**If Swallowed:** Do not induce vomiting. Call physician immediately.

## **SECTION 5 - FIRE FIGHTING MEASURES**

**Flash Point (° F):** - 4, TCC

**Lower Explosive Limit (LEL) %:** 2

**Upper Explosive Limit (UEL) %:** 13

**Auto-Ignition Temperature:** 760 °F.

**OSHA Flammability Classification:** Class IB Flammable liquid.

**Hazardous Products of Combustion:** Material may produce CO, CO<sub>2</sub>, H<sub>2</sub>O, hydrocarbons, smoke, and materials listed in Section 2.

**Extinguishing Media:** Alcohol foam, CO<sub>2</sub>, and dry chemical.

**Unusual Fire and Explosion Hazards:** Material is highly volatile and readily gives off vapors which may travel along the ground and be ignited by pilot lights, sparks, or other sources of ignition.

**Fire Fighting Equipment:** Wear self contained breathing apparatus with a full face piece operated in positive pressure demand mode.

**Miscellaneous Advice:** None

*Refer to Section 10 for additional information.*

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear protective clothing including appropriate respiratory gear.

**Methods for Clean-up:** Eliminate all ignition sources. Use spark proof tools and equipment. Dike and pump liquid to waste containers. Dispense sand, sawdust, or vermiculite and absorb spill residue. Shovel into secure containers of solvent proof construction. Do not allow into waterways, sewers, or storm drains.

*Refer to Section 13 for disposal information.*

*Refer to Sections 14 and 15 for reportable quantity information.*

## SECTION 7 - HANDLING AND STORAGE

**Handling:** Use good hygienic practices. Do not open, dispense, or use around open flames, heat sources, or other sources of ignition. Large containers should be properly grounded during dispensing to avoid static discharge potential. Do not reuse containers. Do not puncture, drag, or slide container. Avoid prolonged or repeated breathing of vapor or mist. Reports have associated repeated or prolonged overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

\*\*\* KEEP OUT OF THE REACH OF CHILDREN. \*\*\*

**Storage:** Keep closures tight and containers upright to prevent leakage. Store in a cool, dry, well ventilated location. Store between 40 and 100 °F. Do not store near heat, sparks, or flame. Extinguish pilot lights.

*Consult the Mannington Professional Installation Handbook for additional information on handling and storage.*

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Use sufficient ventilation, in volume and pattern, to keep air contaminant concentrations below PEL or TLV. Work areas must be free of all flame and ignition sources. Do not use in confined spaces without proper ventilation and personal protection.

**Respiratory Protection:** If PEL or TLV is exceeded, use a NIOSH/MSHA approved respirator, or a positive pressure supplied air respirator. Dust masks are not acceptable to prevent inhalation hazards.

**Eye Protection:** Wear splash goggles, face shield, and/or full face respirator if contact with liquid is likely.

**Hand and Skin Protection:** Wear solvent impermeable synthetic rubber gloves where contact with liquid is likely. Wear solvent resistant clothing where splash potential exists.

**Other Protective Equipment:** No information.

**Hygienic Practices:** *Always wash hands before eating, smoking or using toilet facilities. Do not smoke in any chemical handling or storage area. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.*

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear thin liquid

**Physical State:** Liquid

**Melting Point:** Not applicable

**Boiling Point (° F):** 131

**Density:** 0.79 grams/cm<sup>3</sup>

**Vapor Density (Air = 1):** 2.0 – 2.4

**Specific Gravity (Water = 1.0):** 0.79

**Water Solubility:** Moderately soluble.

**Volatiles (Wt. %):** 100

**VOC (Grams Per Liter):** 790

**Vapor Pressure (mm Hg@20°C):** 180

**Evaporation Rate (Butyl Acetate = 1):** 5.7

**pH:** Not applicable

**Decomposition Temperature:** No information

## SECTION 10 - STABILITY AND REACTIVITY

**Conditions to Avoid:** Open flames, sparks, ignition sources.

**Materials to Avoid:** Oxidizers

**Stability:** Stable

**Hazardous Reactions:** None known.

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition Products:** See Section 5 - Products of Combustion.

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Product LD<sub>50</sub> (Oral):** Acetone (Rat) – 5800 mg/kg; LD<sub>Lo</sub> (Man) –2857 mg/kg. Methyl Ethyl Ketone (Rat) – 2.7 – 5.6 g/kg, slightly toxic.

**Product LD<sub>50</sub> (Dermal):** Methyl Ethyl Ketone (Rabbit) – 5.0 – 13 g/kg, slightly toxic.

**Product TC<sub>50</sub> (Inhalation):** Acetone (Rat) – 44 mg/m<sup>3</sup>/4 hrs. TC<sub>Lo</sub> (Man) – 500 ppm. Methyl Ethyl Ketone LC<sub>50</sub> (Rat) – Estimated > 5000 ppm/6 hrs, based in current studies.

**Immediate (Acute) Effects:** Acetone– Eye Irritation (Rabbit) 20 mg – Severe. Skin Irritation (Rabbit), 500 mg/24 hrs., Open Test – Mild.

Methyl Ethyl Ketone – Eye Irritation (Rabbit) 20 mg – Severe. Skin: Not a skin sensitizer based on human patch test.

**Delayed (Subchronic & Chronic) Effects:** No information.

## SECTION 12 - ECOLOGICAL INFORMATION

**Degradation:** Solvent components readily volatilize when released to air, ground, or water. Bio-degradation in soil is gradual dependant on soil conditions. Degradation in air is via photochemical reaction (hydroxy radicals) with expected half lives of 22 days for acetone, and 5.5 days for methyl ethyl ketone. Little to no bioaccumulation is expected.

**Ecotoxicity:** Acetone: LC<sub>50</sub> (Rainbow Trout) – 5540 mg/L/96 hr. Sunfish, death - 14,250 ppm/24 hr. Methyl Ethyl Ketone: LC<sub>50</sub> (Fish) = 4600 – 5600 ppm. EC<sub>50</sub> (Invertebrates) = 1950 – 8890 ppm.

## SECTION 13 - DISPOSAL CONSIDERATIONS

**US EPA RCRA Status:** Product: Ignitable hazardous waste, hazard category waste number – U002. Individual components hazardous waste numbers: Acetone – U002; Methyl Ethyl Ketone – U159.

**Disposal Considerations:** Dispose of as a flammable hazardous waste.

**Disposal Method:** Do not dispose at landfill. Dispose by incineration at permitted facility. Disposal should be done in accordance with all local, state and federal (40 CFR Part 261) regulations. Be aware that state and local requirements differ widely depending on location and may in many cases be different from federal rules.

## SECTION 14 - TRANSPORT INFORMATION

The information provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transport.

**DOT Proper Shipping Name:** Flammable Liquid, N.O.S. (Contains Acetone, MEK), Flammable Liquid

**DOT Hazard Class:** 3

**DOT UN/NA Number:** UN 1993

**Packing Group:** PG II

**Emergency Response Guide Number:** Not known.

**Other:** DOT LABELS / PLACARDS: Flammable

## SECTION 15 - REGULATORY INFORMATION

### U.S. Federal Regulations:

CERCLA: Acetone RQ-5000 lbs. Methyl Ethyl Ketone RQ-5000 lbs.

Volatile Organic Compounds (VOC's): Acetone, Methyl Ethyl Ketone.

Hazardous Air Pollutants (HAP's): Methyl Ethyl Ketone.

**SARA Section 311/312:** Immediate (acute) health hazard; Delayed (chronic) health hazard; Fire hazard.

**SARA Section 313:** No components at or above EPA reporting thresholds.

**Toxic Substances Control Act:** All components are listed on the TSCA inventory.

**Inventory Status:** Listed

**Export Notification:** None

**Other:** California Proposition 65: Contains no components requiring notification.

## SECTION 16 - OTHER INFORMATION

Hazard Ratings	Health	Fire	Reactivity	Additional Information
<b>Suggested NFPA Rating</b>	2	3	0	
<b>Suggested HMIS Rating</b>	2*	3	0	*Denotes potential chronic health hazard

### Disclaimer:

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Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

**Legend:**

N.E. - Not Established

N.A. - Not Available

N/A - Not Applicable

C - Ceiling (Exposure Levels)

PEL - Permissible Exposure Limits

OEL - Occupational Exposure Limit

TSCA - Toxic Substances Control Act

NFPA - National Fire Protection Association

TLV - Exposure Limits Developed by ACCIH

MSHA - Mine Safety and Health Administration

NIOSH - National Institute for Occupational Safety

OSHA - Occupational Safety and Health Administration

HAZCOM - Hazard Communication Standard (29CFR1910.1200)

ACGIH - American Conference of Government Industrial Hygienists

CERCLA - Comprehensive Environmental Response, Comprehensive and Liability Act

S - Skin

ppm - Parts per Million

° F. - Degrees Fahrenheit

° C. - Degrees Centigrade

STEL - Short-Term Exposure Limit

CIH - Certified Industrial Hygienist

TWA - Time Weighted Average