

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: MT-800 Seam Sealer

Chemical Name: Mixture of adhesive resins in solvent

Product Use/Class: Solvent-based vinyl seam sealer

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

Phone Numbers: Transport Emergency Contact:
Within the U.S. - CHEMTREC: (800) 424-9300
Outside the U.S. - CHEMTREC: +1-703-527-3887

General: (856) 935-3000
Product Emergency: (866) 359-5602

Effective Date: March 17, 2011

Supersedes Dates: January 6, 2009 [Rev. 2]
November 18, 2003

Reason for Revision: Product review and information updating

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight, %	Exposure Guidelines				Other
			ACGIH - TLV		OSHA - PEL		
			TWA	STEL	TWA	Ceiling	
Tetrahydrofuran	109-99-9	27-32	50 ppm	100 ppm	200 ppm		
Methyl Ethyl Ketone	78-93-3	32-37	200 ppm	300 ppm	200 ppm		
Cyclohexanone	108-94-1	4-9	20 ppm	50 ppm	50 ppm		

Remaining ingredients are not considered hazardous per OSHA Hazard Communication Standard.

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. KEEP OUT OF THE REACH OF CHILDREN.

POTENTIAL HEALTH EFFECTS

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

- **Eye Contact:** Can cause moderate to severe irritation, including discomfort, swelling, corneal damage, and blindness. Vapors can cause slight to moderate irritation.
- **Skin Contact:** Can cause moderate irritation, swelling, 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, coughing, 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:** Chronic exposure by inhalation and skin absorption can cause damage to lungs, kidneys, liver, and central nervous system, and produce effects on the heart.
- **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.

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

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point (° F): 23, Setflash CC.

Lower Explosive Limit (LEL) %: 2.6

Upper Explosive Limit (UEL) %: 12.8

Auto-Ignition Temperature: 759 °F.

OSHA Flammability Classification: Class 1B Flammable liquid.

Hazardous Products of Combustion: Material may produce CO, CO₂, H₂O, hydrocarbons, smoke, and materials listed in Section 2.

Extinguishing Media: Alcohol foam, CO₂, 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 CHILDREN AND PETS AWAY FROM WORK AREAS DURING USE OF THIS PRODUCT.**

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

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.): 175

Density: 0.83 grams/cm³

Vapor Density (Air = 1): 2.5

Specific Gravity (Water = 1.0): 0.83

Water Solubility: Moderately soluble

Volatiles (Wt. %): 72

VOC (Grams Per Liter): 684

Vapor Pressure (mm Hg@20°C): 78

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 LD₅₀ (Oral): Tetrahydrofuran (Rat) - 1650 mg/kg. Cyclohexanone (Rat) - 1800 mg/kg. Methyl Ethyl Ketone (Rat) - 2.7 - 5.6 g/kg, slightly toxic.

Product LD₅₀ (Dermal): Cyclohexanone (Rabbit) - 1 ml/kg. Methyl Ethyl Ketone (Rabbit) - 5.0 - 13 g/kg, slightly toxic.

Product LC₅₀: Tetrahydrofuran (Rat) - 12,000 ppm/3 hrs. Cyclohexanone (Rat) - 8000 ppm/4 hrs. Methyl Ethyl Ketone (Rat) - Estimated > 5000 ppm/6 hrs, based in current studies.

Immediate (Acute) Effects: Cyclohexanone - Eye Irritation (Rabbit), Draize: 20 mg - Severe. Skin Irritation (Rabbit), Open Draize: 500 mg - Mild.

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

Delayed (Subchronic & Chronic) Effects: Tetrahydrofuran and Cyclohexanone are ACGIH confirmed animal carcinogens (A3) with unknown relevance to humans.

Tetrahydrofuran: Mutagenicity - No genetic damage in mammalian cell cultures or in animals.

Reproductive effects - Animal testing has produced no adverse effects.

SECTION 12 - ECOLOGICAL INFORMATION

Degradation: Solvent components readily volatilize when released to air, ground, or water. Biodegradation in soil is gradual dependant on soil conditions. Degradation in air is via photochemical reaction (hydroxy radicals) with expected half lives of 1 to 3 days for tetrahydrofuran, 1 to 10 days for cyclohexanone, and 5.5 days for methyl ethyl ketone. Little to no bioaccumulation is expected.

Ecotoxicity: Tetrahydrofuran: LC₅₀ (Fathead Minnows) - 2160 mg/L/96 hr. EC₅₀ (Daphnia Magna - Water Flea) > 10,000 mg/L/24 hr. Cyclohexanone: LC₅₀ (Rainbow Trout) - 44 mg/L/96 hr; 20 mg/L CaCO₃. Methyl Ethyl Ketone: LC₅₀ (Fish) = 4600 - 5600 ppm. EC₅₀ (Invertebrates) = 1950 - 8890 ppm.

SECTION 13 - DISPOSAL CONSIDERATIONS

US EPA RCRA Status: This product meets the category definition of a hazardous waste. Hazardous waste number - D001; hazardous waste classification - Ignitable waste.

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.

Per 49 CFR 100-185, this material is classified as a "Consumer Commodity ORM-D", as packaged.

U.S. DOT Proper Shipping Name: Consumer Commodity, ORM-D

Note: DOT-related information for shipping quantities larger than LTD QTY, use:

DOT Proper Shipping Name: Adhesives

DOT Hazard Class: 3

DOT UN/NA Number: UN1133

Packing Group: PG II

Emergency Response Guide Number: 128

IMDG: UN1133, Adhesives, Class 3, PGII

Emergency Response Guide Number: 128

IATA: Follow current IATA regulations and your carrier's requirements.

SECTION 15 - REGULATORY INFORMATION

U.S. Federal Regulations:

CERCLA: Tetrahydrofuran RQ-1000 lbs. Cyclohexanone RQ-5000 lbs. Methyl Ethyl Ketone RQ-5000 lbs.

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

Hazardous Air Pollutants (HAP's): Tetrahydrofuran, Cyclohexanone, 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
Suggested NFPA Rating	2	3	0	
Suggested HMIS Rating	2	3	0	

Disclaimer:

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date of hereof, the company makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will the company be responsible for damages of any nature whatsoever resulting from the use of or reliance upon 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