

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: MHS 22 HIGH GLOSS SEAM SEALER
Chemical Name: Sealer and Adhesive
Product Use/Class: Vinyl Flooring Seam Sealer
Company Information: Mannington Mills, Inc.
 P.O. Box 30, Rte. 45
 75 Mannington Mills Road
 Salem, New Jersey 08079
 Phone: (856) 935-3000
Phone Numbers: Product Emergency: (866) 359-5602
 Spill Response: (800) 424-9300
Effective Date: 16/May/2003 Reason for Revision: Updated MSDS format
Supersedes Date: Feb-02

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight%	Exposure Guidelines				Other
			ACGIH - TLV		OSHA - PEL		
			Less Than	TWA	STEL	TWA	
Part A							
Ketone	Proprietary	70%	25	N.E.	50	N.E.	S, Units ppm
Tetrahydrofuran	109-99-9	10%	200	250	200	N.E.	Units ppm
Aliphatic Diisocyanate	Proprietary	2.0%	0.005	N.E.	N.E.	N.E.	Units ppm
Part B							
Ethyl Benzene	100-41-4	1.0%	100	125	100	N.E.	Units ppm
Ketone	Proprietary	10%	25	N.E.	50	N.E.	S, Units ppm
Tetrahydrofuran	109-99-9	75%	200	250	200	N.E.	Units ppm
Urethane Bisoxazolidine	Proprietary	15%	N.E.	N.E.	N.E.	N.E.	

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Form: Liquid
Color: Clear
Odor: Solvent odor

WARNING STATEMENTS

Flammable liquid and vapor. Harmful if absorbed through skin. May cause skin and eye irritation. May cause allergic respiratory reaction. May cause allergic skin reaction. May cause respiratory tract irritation. Vapor harmful; may affect the brain or nervous system causing dizziness, headache, or nausea.

POTENTIAL HEALTH EFFECTS

Likely Routes of Exposure:

Eye contact:	May cause eye irritation.
Skin contact:	Contact with skin may cause irritation, possible rash or reddening upon contact. May cause allergic reaction or skin sensitization.
Inhalation:	Inhalation of high concentrations may have results ranging from dizziness, headaches, shortness of breath, muscular weakness to unconsciousness.
Ingestion:	May be toxic if ingested in large amounts. May cause throat irritation, gastrointestinal discomfort, and vomiting.
Chronic:	Prolonged inhalation can cause irritation, asthma-like conditions. Prolonged eye contact could cause severe irritation to eyes. Prolonged skin contact may cause

Refer to Section 11 for toxicological information.

SECTION 4 - FIRST AID MEASURES

If in Eyes:	Flush eyes with large amounts of water for 15-20 minutes. Seek medical attention.
If on Skin:	Wash skin thoroughly with soap and water. Remove and wash contaminated clothing. Consult physician if irritation persists.
If Inhaled:	Move victim to fresh air. Restore breathing. If unconscious, seek medical attention.
If Swallowed:	Drink one or two glasses of water or milk to dilute. Do not induce vomiting. Seek medical attention or poison control center immediately. Test systematically.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point:	5 °F part A and part B
Lower Explosive Limit (LEL) %:	1.1% part A, 1.1% part B
Upper Explosive Limit (UEL) %:	Not available
Auto-Ignition Temperature:	Not available
OSHA Flammability Classification:	Not available
Hazardous Products of Combustion:	See section 10.
Extinguishing Media:	Carbon dioxide, dry chemical, or alcohol foam.
Unusual Fire and Explosion Hazards:	Both parts are considered flammable liquids
Fire Fighting Equipment:	Use full protective clothing and equipment, including self-contained breathing apparatus. If water is used, fog nozzles are preferable. Use only with adequate ventilation. Store in areas away from sources of ignition,
Miscellaneous Advice:	None

See Section 10.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:	Remove all possible sources of ignition.
Methods for clean-up:	Contain and remove with inert absorbent material and non-sparking tools.

Refer to Section 13 for disposal information.

Refer to sections 14 & 15 for reportable quantity information.

SECTION 7 - HANDLING AND STORAGE

Handling:

Use only in well ventilated areas. Keep away from ignition sources. This product is flammable.

Storage:

Store in a dry environment. Keep from prolonged freezing for optimum performance. Product will withstand three freeze-thaw cycles with no adverse effects on performance. If accidentally frozen, allow to thaw completely, mix thoroughly and check for homogeneity. Acceptable storage temperature range is 35-95 deg F.

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

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Full ventilation required to prevent flammable vapor/air mixtures from accumulating.
Respiratory Protection:	Use NIOSH/MSHA approved air purifying respirator with combination dust/mist filter and organic vapor cartridge in absence of ventilation.
Eye Protection:	Use safety glasses with side shields as minimum protection.
Hand and Skin Protection:	Use neoprene, nitrile, or rubber gloves if skin contact is likely.
Other Protective Equipment:	Use disposable or impervious clothing.
Hygienic Practices:	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 liquid	Water Solubility:	Negligible
Physical State:	Liquid	Volatiles (Wt %):	Approx 85% when mixed
Odor:	Solvent odor	Evaporation Rate:	Slower than water
Boiling Point:	part A: 151 F, part B: 316 F	Specific Gravity:	0.75 (water = 1.0)
Vapor Density:	Heavier than air		

SECTION 10 - STABILITY AND REACTIVITY

Conditions to avoid:	High temperatures, sources of ignition.
Materials to avoid:	Caustics, amines, acids, hydroxyl compounds
Stability:	Stable
Hazardous reactions:	Not available
Hazardous Polymerization:	Will not occur
Hazardous Decomposition Products:	CO ₂ , CO, isocyanate, and oxides of nitrogen

SECTION 11 - TOXICOLOGICAL INFORMATION

Product LD50 (Oral):	Not available
Product LD50 (Dermal):	Not available
Product LC50:	Not available
Immediate (Acute) Effects:	May cause irritation to throat, eyes, and skin.
Delayed (Subchronic & Chronic) Effects	Overexposure can cause severe irritation to throat, lungs, eyes, and skin. Can result in asthma-like conditions, conjunctivitis, and dermatitis.

SECTION 12 - ECOLOGICAL INFORMATION

No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

US EPA RCRA Status: N.A.
Disposal Considerations: N.A.
Disposal Method: N.A.
Miscellaneous: Disposal should be done in accordance with local, state, and federal (40 CFR part 261) regulations. Be aware that state and local requirements may 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.

As packaged in limited quantities for its intended use, this product is regulated under the U.S. DOT as a consumer commodity and is classified as Other Regulated Material: ORM-D.

DOT Proper Shipping Name: N.A.
DOT Hazard Class: ORM-D
DOT UN/NA Number: N.A.
Packing Group: N.A.
Emergency Response Guide Number: N.A.
Other: DOT consumer commodity

SECTION 15 - REGULATORY INFORMATION

U.S. Federal Regulations: Not available
SARA Section 313: Ethyl Benzene, CAS 100-41-4, LT 1% by weight
Toxic Substances Control Act: The chemical substance in this product are on the TSCA Section 8 Inventory.
Inventory Status: Not available
Export Notification: This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:
 Tetrahydrofuran, CAS 109-99-9
 n-Butyl Acetate, CAS 123-86-4
Other: Not available

SECTION 16 - OTHER INFORMATION

	Health	Fire	Reactivity	Additional Information
Hazard Rating:	2	3	0	

Legend:

N.E.- Not Established	°F - Degrees Fahrenheit
N.A. - Not Available	°C - Degrees Centigrade
S - Skin	ppm - parts per million
C - Ceiling (Exposure Levels)	NIOSH - National Institute for Occupational Safety
PEL - Permissible Exposure Limits	ACGIH - American Conference of Government Industrial Hygienist
MSHA - Mine Safety and Health Adm	TLV - Exposure limits developed by ACCIH
TSCA - Toxic Substances Control Act	TWA - Time Weighted Average
CIH - Certified Industrial Hygienist	STEL - Short-Term Exposure Limit
NFPA - National Fire Protection Association	HAZCOM - Hazard Communication Standard (29CFR1910.1200)
OEL - Occupational Exposure Limit	

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.

End of MSDS