



LENDERINK TECHNOLOGIES

1267 House St. NE, Belmont, MI 49306
(616) 887-8257 Fax (616) 887-7910 www.lenderink.com

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MATERIAL SAFETY DATA SHEET

THE WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM REQUIRES THAT THE INFORMATION CONTAINED ON THESE SHEETS BE MADE AVAILABLE TO YOUR WORKERS. INSTRUCT YOUR WORKERS TO HANDLE THIS PRODUCT PROPERLY.

FOR INDUSTRIAL USE ONLY

SECTION 1: Product Name

Product Name: #330 Dry Film Adhesive
Product Class: Dry glue made of paper and thermoset synthetic resins
Manufacturer: Lenderink Technologies

SECTION 2: Composition / Information on Ingredients

Fumes and vapor may be generated during hot-press lamination. Refer to MSDS Section 8 for Exposure Limits and Personal Protective Equipment.

If this product is heated or used at temperatures sufficient to produce smoke or fumes, hazardous decomposition products may be generated. Refer to MSDS Section 8, Recommended Exposure Limits and Personal Protective Equipment.

SECTION 3: Physical Data

Appearance:	Cream, White Papers	Vapor Density:	N/A
Odor:	Weak	Evaporation Rate:	N/A
Boiling Point:	N/A	Solubility in Water:	Ca. 11%
Melting Point:	N/A	Specific Gravity:	N/A
Volatile (%):	2 – 4%		
pH (aqueous extract):	Ca. 6		

SECTION 4: Fire and Explosion Hazard

Vapor and Toxic gases (Nitrous gases, Hydrogen cyanide, Carbon monoxide, Carbon Dioxide, Ammonia, Formaldehyde, and Methanol) may evolve when product is heated or burned.

Extinguishing Media: All extinguishing media are suitable.



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SECTION V: STABILITY AND REACTIVITY

STABILITY:	Stable
HAZARDOUS POLYMERIZATION	No
INCOMPATIBILITY:	Acids
CONDITIONS TO AVOID:	Storage of material in heated areas
HAZARDOUS DECOMPOSITION PRODUCTS :	At high temperature, Formaldehyde and monomer vapors and rosin pyrolysis fumes may be released

SECTION VI: HEALTH HAZARD INFORMATION

POTENTIAL HEALTH EFFECTS

Prolonged exposure to smoke or fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing, or breathing difficulty.

Refer to MSDS Section 8, Exposure limits / Personal Protection, for further information.

Refer to MSDS Section 5, Stability and Reactivity, for hazardous decomposition products.

FIRST AID

EYE CONTACT:	Flush the eyes with large amount of water. If irritation persists, repeat flushing. Get medical attention immediately.
INHALATION:	Provide fresh air. Get medical attention, if irritation persists.
SKIN CONTACT:	Wash gently with mild soap and water. Get medical attention if irritation persists.
INGESTION:	Contact a physician immediately.

SECTION VII: SPILL, LEAK AND DISPOSAL PROCEDURES

Dispose of according to applicable municipal, provincial and federal regulations.

SECTION VIII: EXPOSURE LIMITS / PERSONAL PROTECTION

The fumes or smokes generated from burning or hot-pressing laminating may contain the following ingredients:

	CAS Number	Exposure limits
FORMALDEHYDE	50-00-0	0.75 ppm (OSHA-TWA) 2.0 ppm (OSHA-STEL) 0.3 ppm (ACGIH-CEILING)
METHANOL	67-56-1	200 ppm skin (OSHA-TWA)



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250 ppm skin (OSHA-STEL)
250 ppm skin (ACGIH-STEL)

TRIETHYLAMINE 121-44-8

10 ppm (OSHA-TWA)
15 ppm (OSHA-STEL)
3 ppm skin (ACGIH-STEL)

RESIN PYROLYSIS FUMES: Maintain exposure to the lowest achievable concentration using recommended personal protective equipment.

RESPIRATION PROTECTION: Appropriate respiratory protection is required when exposure to airborne contaminants may exceed acceptable limits. Respirators should be selected and used according to OSHA, Subpart I (29 CFR 1910.134) and manufacturers recommendations

SKIN PROTECTION: Gloves are required when handling the material.

SECTION IX: SPECIAL PRECAUTIONS AND COMMENTS

STORAGE:

Store the material in cool, well ventilated areas.
We strongly recommend the material should be stored in air-conditioned areas at about 20° C and 50% relative humidity, out of direct sunlight, away from any source of heat and incompatible materials.

Protect containers from physical damage.

SECTION X: TOXICOLOGICAL INFORMATION

Product Toxicology

This product is considered as being Non-toxic, based on the information available of materials used in this product.

POTENTIAL CANCER HAZARD

Rats chronically exposed to 14 ppm formaldehyde contracted nasal cancers. Based on animal data and limited epidemiological evidence, NTP and IARC have listed formaldehyde as a probable human carcinogen. OSHA regulates formaldehyde as a potential human carcinogen.

Formaldehyde may cause allergic skin reaction. Some reports suggest that formaldehyde may cause respiratory sensitization, such as asthma, and that pre-existing respiratory skin disorders may be aggravated by exposure.

OSHA has identified 0.5 ppm as the "Action level", 29CRF 1910.1048. (Please refer to the OSHA standard for guidance applicable to your specific operations):

SECTION XI: ADDITIONAL INFORMATION



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The above information is intended to describe our product in respect to safety and handling requirements only. We have made every effort to provide accurate information from data available to us. We do not give warranties, expressed or implied, in regard to the accuracy of this information or the properties, fitness or safety of the product identified herein. In addition, we are not liable for any damages, losses, injuries or consequential damages which may result from the use of reliance on any information contained herein, since conditions of use and utilization of the product are beyond our control. Observance of all legal requirements is the responsibility of the user.

Prepared by:



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