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**Section 1: PRODUCT AND COMPANY INFORMATION**

**PRODUCT NAME:** ML322E  
**MANUFACTURER:** FREUDENBERG NONWOVENS L.P.  
INDUSTRIAL NONWOVENS DIVISION  
3440 INDUSTRIAL DR.  
DURHAM, NC 27704  
USA  
**PHONE NUMBER:** (919) 620-3900  
**DATE PREPARED:** July 24, 2008  
**CODE NUMBER:** Not assigned  
**CHEMTREC:** Not available

**SEE SECTION 16 FOR EXPLANATION OF THE INFORMATION IN THIS TECHNICAL SAFETY INFORMATION SHEET (TSIS).**

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**Section 2: COMPOSITION / INFORMATION ON INGREDIENTS**

Note: This product is a nonwoven material and is not a "hazardous chemical" as regulated under the OSHA communication Standard 29CFR 1910.1200.

<u>CHEMICAL NAME</u>	<u>AMOUNT</u>	<u>CAS NUMBER</u>
Proprietary Fiber blend	up to 100%	N/A

**COMPOSITION COMMENT:**

Fibers and product may contain substantial amounts of organic and inorganic materials plus coloring agents and additives, e.g. to print or dye, to control fiber lubricity during processing, to reduce flammability. These ingredients are in physical forms which, to our knowledge, offer no significant risk for health.

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**Section 3: HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:** No known effects. May release formaldehyde, halogenated gases and antimony compounds if exposed to high heat.

**POTENTIAL HEALTH EFFECTS:**

**Acute Eye:** No known effects, not tested.  
**Acute Skin:** No known effects, not tested.  
**Acute Inhalation:** No known effects, not tested.  
**Acute Ingestion:** No known effects, not tested.

**CHRONIC EFFECTS:** This product may contain ingredients that are considered to be probable or suspected human carcinogens. No physical effect from exposure to the product is expected.  
It may be possible that certain sensitive individuals may develop a skin irritation from handling the material.

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**Section 4: FIRST AID MEASURES**

**EYES:** If contact occurs, flush immediately with large amounts of water for 15 minutes minimum and consult a physician.

**SKIN EXPOSURE:** If irritation occurs, wash the affected area with soap and water and consult a physician.

**INHALATION:** Remove victim from immediate source of exposure. Seek medical attention.

**INGESTION:** Seek medical attention.

**NOTES TO PHYSICIAN:** All treatments should be based on observed signs and symptoms of distress in the patient. Considerations should be given to the likely possibility that overexposure to materials other than this product may have occurred. Treat symptomatically. This material is not a hazardous chemical.

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**Section 5: FIRE FIGHTING MEASURES**

**FLASH POINT:** N/A

**EXPLOSIVE LIMITS (EL):** Lower EL: N/A Upper EL: N/A

**EXTINGUISHING MEDIA:** Foam, water, carbon dioxide, dry chemical (multi purpose).

**PERSONAL PROTECTIVE EQUIPMENT:** Self-contained breathing apparatus is recommended.

**SPECIAL PROCEDURES:** Avoid breathing smoke.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None known. Product will partly burn and char under fire conditions.

**HAZARDOUS DECOMPOSITION MATERIALS (UNDER FIRE CONDITIONS):** Typical products of combustion like oxides of carbon and nitrogen, HCL, HCN, plus halogenated compounds and antimony compounds.

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**Section 6: ACCIDENTAL RELEASE MEASURES**

**EVACUATION PROCEDURES AND SAFETY:** Wear appropriate protective gear.

**CONTAINMENT OF SPILL:** Solid product, should not occur.

**CLEANUP AND DISPOSAL OF SPILL:** If not contaminated, collect for re-use.  
If contaminated, dispose of material according to proper procedures and local laws.

**ENVIRONMENTAL AND REGULATORY REPORTING:** Not a hazardous material. None known.

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**Section 7: HANDLING AND STORAGE**

**MINIMUM/MAXIMUM STORAGE TEMPERATURE:** 0 to 60 degree Celsius (32 to 122 degree Fahrenheit)

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**HANDLING:**

Do not ingest. Use handling, storage and disposal procedures that will prevent contamination of water, food or feed. Avoid freezing. If freezing occurs, thaw and dry.

**STORAGE:**

Store the material in a cool and well ventilated location and protect from contamination. Keep away from ignition sources. It is recommended that warehouses be sprinkler equipped for fire protection.

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**Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**INGESTION:** Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

**EYE CONTACT:** To avoid eye contact, wear safety glasses with side shields.

**SKIN CONTACT:** To avoid skin contact, wear rubber gloves or, for more comfort, cotton gloves, long- sleeved shirt and long pants.

**RESPIRATORY PROTECTION:** To avoid breathing dust, use particulate filter, NIOSH-approved per 42CFR Part 84. Select N or R or P type as appropriate for any oil characteristics of any other air contaminations present.

**ENGINEERING CONTROLS:** If needed, use local exhaust to keep exposures to a minimum.

**EXPOSURE GUIDELINES:**

PEL (OSHA): not established

TLV (ACGIH): not established

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**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE:	Solid.
COLOR:	White and yellow.
ODOR CHARACTERISTIC:	No specific odor.
ODOR THRESHOLD (PPM):	Not established, not applicable.
PH:	Not applicable.
SPECIFIC GRAVITY (WATER=1):	Not established.
VAPOR PRESSURE (MM HG):	Not applicable.
EVAPORATION RATE:	Not applicable.
FREEZING/MELTING POINT (DEG C):	Not applicable. Can stiffen and freeze below 0 deg C.
DENSITY (G/ML):	Not established.
BOILING POINT (DEG C):	Not applicable.
SOLUBILITY IN WATER (AT 20 DEG C):	Insoluble / Not applicable.

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**Section 10: STABILITY AND REACTIVITY**

CHEMICAL STABILITY:	Stable at normal temperatures and storage conditions.
HAZARDOUS POLYMERIZATION:	None known. Should not occur.
CONDITIONS TO AVOID:	Avoid freezing temperatures and above 70degree C.

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CHEMICAL INCOMPATIBILITY: Avoid strong acids and bases. Avoid oxidizing agents.  
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen, HCL, HCN, halogenated and antimony compounds during combustion.

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## Section 11: TOXICOLOGICAL INFORMATION

### ACUTE DATA:

Eye Irritation:	Not tested.
Skin Irritation:	Not tested.
Oral LD <sub>50</sub> :	Not tested.
Dermal LD <sub>50</sub> :	Not tested.
Inhalation LD <sub>50</sub> :	Not tested.
Skin Sensitization:	Not tested.

### CHRONIC DATA:

Chronic Toxicity Studies:	Not tested.
Mutagenicity Data:	Not tested.
Reproductive/Teratology Data:	Not tested.
Carcinogenicity Data:	Not tested.

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## Section 12: ECOLOGICAL INFORMATION

ECO-ACUTE TOXICITY: Not tested.

### ENVIRONMENTAL FATE:

Photolysis:	Not tested.
Hydrolysis:	Not tested.

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## Section 13: DISPOSAL CONSIDERATIONS

PROCEDURES: For disposal, landfill or incinerate at a facility that complies with local, state and federal regulations.

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## Section 14: TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME:	Not regulated (Nonwoven material).
DOT HAZARD CLASS:	Not regulated.
UN NUMBER:	Not regulated.
SPECIAL INFORMATION:	None known.
PACKING GROUP:	Not regulated.

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## Section 15: REGULATORY INFORMATION

WORKPLACE CLASSIFICATION: This Product is not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Freudenberg Nonwovens L.P.**  
**Industrial Nonwovens Division**

**3440 Industrial Dr.**  
**Durham, NC 27704**

**Telephone: (919) 620-3900**  
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SARA TITLE 3: Not regulated. This product is not a hazardous chemical under SARA 311/312.

TSCA: Exempt from TSCA.

RCRA: Not regulated.

CERCLA: This material contains no hazardous or extremely hazardous substances as defined by CERCLA.

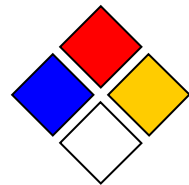
CANADA: This product does not meet the requirements of Hazardous Products Act and is not controlled under the Workplace Hazardous Materials Identification System (WHMIS).

CALIFORNIA PROP 65:

This product may contain ingredients which are known to the state of California to cause cancer, birth defects, or other reproductive harm.

HMIS® III RATING:

(blue) Health:	0	No significant risk for health.
(red) Flammability:	0	Material should not ignite.
(orange) Physical Hazard:	0	Material stable under normal conditions.
(white) Personal Protection:	A	Safety Glasses



## Section 16: Other Information

TO THE BEST KNOWLEDGE OF FREUDENBERG NONWOVENS, THIS PRODUCT IS NOT A "HAZARDOUS CHEMICAL" AS REGULATED UNDER THE OSHA COMMUNICATION STANDARD 29CFR 1910.1200. THIS PRODUCT IS CONSIDERED AN "ARTICLE".

OSHA - DEFINITION:

An "article" means a manufactured item: (1) which is formed to a specific shape or design during manufacture (2) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (3) which does not release, or releases only very small quantities, e.g., minute or trace amounts provided that a physical or health risk is not posed to the employees (59 F.R. 6146), or otherwise result in exposure to, a hazardous chemical under normal conditions of use.

Any product meeting the definition of an "article" is exempt from the requirements of the OSHA communication Standard 29CFR 1910.1200 to create and supply a **Material Safety Data Sheet (MSDS)**.

THE INFORMATION IN THIS **TECHNICAL SAFETY INFORMATION SHEET (TSIS)** IS FURNISHED ON A VOLUNTARY BASIS ONLY.

THE DATA ON THIS SHEET ARE RELATED ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN. IT DOES NOT RELATE TO USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY PROCESS.

**The information and data is furnished without warranty, expressed or implied, of Freudenberg Nonwovens LP.**

**Freudenberg Nonwovens LP assumes no legal responsibility for use or reliance upon these data.**

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End of TSIS.

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