



# Material Safety Data Sheet

Material Name: LUTRADUR Nonwoven Fabric

## \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

### Manufacturer Information

Freudenberg Nonwovens  
3500 Industrial Drive  
PO Box 15910  
Durham, NC 27704

Phone: (919) 471-7226

## \*\*\* Section 2 - Hazards Identification \*\*\*

### Emergency Overview

No significant hazards.

### Potential Health Effects: Eyes

No health effect via this route of entry expected under anticipated use conditions.

### Potential Health Effects: Skin

No health effect via this route of entry expected under anticipated use conditions.

### Potential Health Effects: Ingestion

No health effect via this route of entry expected under anticipated use conditions.

### Potential Health Effects: Inhalation

No health effect via this route of entry expected under anticipated use conditions.

### HMIS Ratings: Health: 0 Fire: 0 HMIS Reactivity 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

CAS #	Component	Percent
25038-59-9	Polyester	95-100
Not Available	Nonhazardous Components	1.78-1.98
Trade Secret	Trade Secret Lubricant	0-0.75
68511-62-6	Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrioxone complexes	< .2
7440-02-0	Nickel	0-0.02

## \*\*\* Section 4 - First Aid Measures \*\*\*

### First Aid: Eyes

None required

### First Aid: Skin

None required

### First Aid: Ingestion

None required

### First Aid: Inhalation

None required

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

### General Fire Hazards

See Section 9 for Flammability Properties.

None

### Hazardous Combustion Products

Not Determined

### Extinguishing Media

Use appropriate extinguishing media for surrounding fire.

### Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

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NFPA Ratings: Health: 0 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

### Personal Precautions

No special precautions necessary.

### Containment Procedures

### Clean-Up Procedures

No special clean-up procedures necessary.

### Evacuation Procedures

None

### Special Procedures

Not Applicable

## \*\*\* Section 7 - Handling and Storage \*\*\*

### Handling Procedures

No special handling procedures necessary.

### Storage Procedures

No special storage procedures necessary.

## \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

### A: Component Exposure Limits

#### Nickel (7440-02-0)

ACGIH: 1.5 mg/m<sup>3</sup> TWA (inhalable fraction)

OSHA: 1 mg/m<sup>3</sup> TWA

NIOSH: 0.015 mg/m<sup>3</sup> TWA

### Engineering Controls

Ventilation is not normally required.

### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment: Eyes/Face

None Required

#### Personal Protective Equipment: Skin

None Required

#### Personal Protective Equipment: Respiratory

None Required

#### Personal Protective Equipment: General

None Required

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## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Appearance:</b>	White, Grey, Beige or Black fabric	<b>Odor:</b>	Little or none
<b>Physical State:</b>	Solid	<b>pH:</b>	NA
<b>Vapor Pressure:</b>	NA	<b>Vapor Density:</b>	NA
<b>Boiling Point:</b>	ND	<b>Melting Point:</b>	ND
<b>Solubility (H2O):</b>	ND	<b>Specific Gravity:</b>	1.37
<b>Evaporation Rate:</b>	NA	<b>VOC:</b>	NA
<b>Octanol/H2O Coeff.:</b>	NA	<b>Flash Point:</b>	NA
<b>Flash Point Method:</b>	NA	<b>Upper Flammability Limit (UFL):</b>	NA
<b>Lower Flammability Limit (LFL):</b>	NA	<b>Burning Rate:</b>	NA
<b>Auto Ignition:</b>	NA		

## \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

### Chemical Stability

This is a stable material.

### Chemical Stability: Conditions to Avoid

None

### Incompatibility

None

### Hazardous Decomposition

None

### Possibility of Hazardous Reactions

Will not occur.

## \*\*\* Section 11 - Toxicological Information \*\*\*

### Acute Dose Effects

### Component Analysis - LD50/LC50

#### Nickel (7440-02-0)

Oral LD50 Rat: >9000 mg/kg

### Carcinogenicity

### Component Carcinogenicity

#### Nickel (7440-02-0)

ACGIH: A5 - Not Suspected as a Human Carcinogen

NIOSH: potential occupational carcinogen

NTP: Reasonably Anticipated To Be A Human Carcinogen (Possible Select Carcinogen)

IARC: Monograph 49 [1990], Supplement 7 [1987] (Group 2B (possibly carcinogenic to humans))

## \*\*\* Section 12 - Ecological Information \*\*\*

### Ecotoxicity

### Component Analysis - Ecotoxicity - Aquatic Toxicity

#### Nickel (7440-02-0)

##### Test & Species

96 Hr LC50 Oncorhynchus mykiss	31.7 mg/L	<b>Conditions</b>
96 Hr LC50 Pimephales promelas	3.1 mg/L	adult
96 Hr LC50 Brachydanio rerio	>100 mg/L	

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72 Hr EC50 freshwater algae (4 species)	0.1 mg/L
72 Hr EC50 Selenastrum capricornutum	0.18 mg/L
96 Hr EC50 water flea	510 µg/L

## \*\*\* Section 13 - Disposal Considerations \*\*\*

### US EPA Waste Number & Descriptions

#### A: General Product Information

None identified.

#### B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

#### Disposal Instructions

All wastes must be handled in accordance with local, state and federal regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

## \*\*\* Section 14 - Transportation Information \*\*\*

### US DOT Information

Shipping Name: Not Regulated

## \*\*\* Section 15 - Regulatory Information \*\*\*

### US Federal Regulations

#### Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

#### Nickel (7440-02-0)

CERCLA: 100 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers); 45.4 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers)

### State Regulations

#### Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Nickel	7440-02-0	Yes	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

#### Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

#### Additional Regulatory Information

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## Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Polyester	25038-59-9	Yes	DSL	ELINCS
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	68511-62-6	Yes	DSL	EINECS
Nickel	7440-02-0	Yes	DSL	EINECS

## \* \* \* Section 16 - Other Information \* \* \*

### Other Information

To the best of our knowledge, the information contained herein is accurate. However, Freudenberg Nonwovens does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

### Key/Legend

NA - Not Applicable  
ND - Not Determined  
ACGIH - American Conference of Governmental Industrial Hygienists  
OSHA - Occupational Safety and Health Administration  
TLV - Threshold Limit Value  
PEL - Permissible Exposure Limit  
TWA - Time Weighted Average  
STEL - Short Term Exposure Limit  
NTP - National Toxicology Program  
IARC - International Agency for Research on Cancer