

# MATERIAL SAFETY DATA SHEET

REEF INDUSTRIES, INC.

HMIS CODES:

HEALTH: 0  
FLAMMABILITY: 1  
REACTIVITY: 0

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DATE PREPARED: 4/17/03

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Transguard 4000, Transguard EG  
**GENERAL OR GENERIC ID:** Polypropylene nonwoven fabric and polyethylene coating  
**CHEMICAL FAMILY:** Polyethylene and Polypropylene polymers

**CONTACT ADDRESS:** Reef Industries, Inc.  
P. O. Box 750250  
Houston, Texas 77275-0250

**EMERGENCY TELEPHONE NUMBERS:** (713) 507-4349 (24 Hours)  
(713) 507-4200 (8:00 - 5:00 Central Time)

## SECTION 2 HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

This product is not hazardous as defined in 29 CFR 1910.1200  
Chemicals subject to reporting requirements of SARA Title III section 313 are identified in this section

**INGREDIENT:**            **CAS No:**    **% by WEIGHT:**    **PEL:**        **STEL:**    **NOTE:**

## SECTION 3 PHYSICAL / CHEMICAL CHARACTERISTICS

<b>Boiling Point:</b>	NA	<b>Specific Gravity (Water = 1):</b>	0.92 - 0.97
<b>Vapor Pressure (mm Hg.):</b>	NA	<b>Melting Point:</b> °F	320 °F
<b>Vapor Density (Air = 1):</b>	NA	<b>Evaporation Rate:</b>	NA
<b>Solubility in Water:</b>	Insoluble	<b>Appearance and Odor:</b>	Odorless plastic laminate-Polyester fiber reinforced

## SECTION 4 FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used):</b> >315 Deg C. 600 Deg. F	<b>Flammable Limits:</b>	<b>LEL</b> NA	<b>UEL</b> NA
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**Extinguishing Media:** Water spray, Foam, Dry Chemical, or CO<sub>2</sub>

**Special Fire Fighting Procedures:**  
Fire fighters should be equipped with self-contained breathing apparatus when fighting fires involving this material.

**Unusual Fire and Explosion Hazards:**  
Fire may produce toxic gases and dense smoke.

**SECTION 5 REACTIVITY DATA**

Stability:	Stable	Incompatibility (Materials to Avoid):	Avoid Strong Oxidizing Agents
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**Hazardous Decomposition or Byproducts:**CO<sub>2</sub>, CO and small amounts of aliphatic and aromatic hydrocarbons when subjected to flames or excessive heat.**Hazardous Polymerization:** Will not occur**SECTION 6 HEALTH HAZARD DATA**

Primary Route(s) of Entry:	Inhalation? No	Absorption? No	Ingestion? No
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**Health Hazards (Acute and Chronic):**

Inhalation: None at ambient temperatures

Skin Contact: Not ordinarily required

Ingestion: No significant health hazards identified

Carcinogenicity:	NTP? None	IARC Monographs? None	OSHA Regulated? None
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**Signs and Symptoms of Exposure:**

Inhalation: NA

Absorption: NA

Ingestion: NA

**Medical Conditions Generally Aggravated by Exposure:**

Inhalation: None

Absorption: None

Ingestion: None

**Emergency and First Aid Procedures:**

Inhalation: NA

Absorption: NA

Ingestion: NA

**SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE**

Steps to Be Taken in Case Material Is Released or Spilled: NA	Waste Disposal Method: In accordance with local, state and federal regulations.
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**Precautions to Be Taken in Handling and Storage:** NA**Other Precautions:** NA**SECTION 8 CONTROL MEASURES**

Respiratory Protection: None	Ventilation: None
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Protective Gloves: NA

Eye Protection: NA

**Other Protective Clothing and Equipment:** NA

THE INFORMATION PROVIDED RELATES TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS. INFORMATION PROVIDED IS TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS OF THE DATE PREPARED. NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO DETERMINE FOR HIS/HERSELF THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION. REEF INDUSTRIES, INC. DOES NOT ACCEPT LIABILITY FOR ANY LOSS OR DAMAGE WHICH MAY OCCUR FROM THE USE OF THIS INFORMATION.

## DEFINITIONS

### SECTION I PRODUCT IDENTIFICATION

GENERAL OR GENERIC ID: Chemical family or product description.  
DOT HAZARD CLASSIFICATION: Product meets DOT criteria for hazards listed.

### SECTION II COMPONENTS

Components are listed in this section if they present a physical and/or health hazard and are present at or above 1% the mixture. If a component is identified as a carcinogen by NTP, IARC or OSHA as of the date on the MSDS, it will be listed and footnoted in this section when present at, or above 0.1% in the product. Negative conclusions concerning carcinogenicity are not reported. Additional health information may be found in Section V. Components subject to the reporting requirements of Section 313 of SARA Title III are identified in the footnotes in this section, along with typical percentages. Other components may be listed if deemed appropriate. Exposure recommendations are for components. OSHA Permissible Exposure Limits (PELs) and American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs) appear on the line with the component identification. Other recommendations appear as footnotes.

### SECTION III PHYSICAL DATA

BOILING POINT: Of product. The lowest value of the components is listed for mixtures.  
VAPOR PRESSURE: Of product. The highest value of the components is listed for mixtures.  
SPECIFIC VAPOR DENSITY: AIR=1. If unknown, the Specific Vapor Density will be listed as lighter or heavier than air.  
SPECIFIC GRAVITY: WATER=1. If unknown, the Specific Gravity will be listed as less than or greater than water. pH if applicable.  
PER CENT VOLATILES: Percentage of material with initial boiling point below 425 degrees Fahrenheit.  
EVAPORATION RATE: Indicated as faster or slower than Ethyl Ether, unless otherwise indicated.

### SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Method identified.  
EXPLOSIVE LIMIT: For product if known. The lowest value of the components is listed for mixtures.  
EXTINGUISHING MEDIA: Following National Fire Protection Association criteria.  
HAZARDOUS DECOMPOSITION PRODUCTS.: Known or expected hazardous products resulting from heating, burning or other reactions.  
FIREFIGHTING PROCEDURES: Minimum equipment to protect firefighters from toxic products of vaporization, combustion or decomposition in fire situations. Other fire fighting hazards may also be indicated.  
SPECIAL FIRE AND EXPLOSION HAZARDS: State hazards not covered by other sections.  
NFPA CODES: Hazard ratings assigned by the National Fire Protection Association.

### SECTION V HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL (PEL): For product.  
THRESHOLD LIMIT VALUE (TLV): For product.  
EFFECTS OF ACUTE OVEREXPOSURE: Potential local and systemic effects due to single or shorter overexposure to the eyes, skin or through inhalation or ingestion.  
EFFECTS OF CHRONIC OVEREXPOSURE: Potential local and systemic effects due to repeated or long term overexposure to the eyes and skin or through inhalation or ingestion.

### SECTION VI REACTIVITY DATA

HAZARDOUS POLYMERIZATION: Conditions to avoid to prevent hazardous polymerization resulting in a large release of energy.  
STABILITY: Conditions to avoid to prevent hazardous or violent decomposition.  
INCOMPATIBILITY: Materials and conditions to avoid to prevent hazardous reactions.

### SECTION VII SPILL OR LEAK PROCEDURES

Reasonable precautions to be taken and methods of containment, clean-up and disposal. Consult Federal, State and Local regulations for accepted procedures and reporting notification requirements.

### SECTION VII PROTECTIVE EQUIPMENT TO BE USED

Protective equipment that may be needed when handling the product.

### SECTION IX SPECIAL PRECAUTIONS - OTHER COMMENTS

Covers any relevant points not previously mentioned.