

# MATERIAL SAFETY DATA SHEET

REEF INDUSTRIES, INC.

<b>HMIS CODES:</b>	
<b>HEALTH:</b>	1
<b>FLAMMABILITY:</b>	1
<b>REACTIVITY:</b>	0

GRIFFOLYN T-55 ASFR

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PREPARED: 7/21/06  
SUPERSEDES; 4/10/01

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: GRIFFOLYN T-55 ASFR

GENERAL OR GENERIC ID: Fire Retardant Polyethylene, Antistatic additive, and Polyester

CHEMICAL FAMILY: Polyethylene Copolymer/Metal oxide/Organic Bromide

CONTACT ADDRESS: Reef Industries, Inc.  
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Houston, Texas 77075

EMERGENCY TELEPHONE NUMBERS: (713) 507-4200 (24 Hours)

## SECTION 2 HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

This product is not hazardous as defined in 29 CFR1910.1200  
Chemicals subject to reporting requirements of SARA Title III section 313 are identified in this section

INGREDIENT:	CAS No:	% by WEIGHT:	PEL:	STEL:	NOTE:
Antimony Trioxide (Sb <sub>2</sub> O <sub>3</sub> )	1309-64-4	1-6%		.05mg/m <sup>3</sup>	.75 mg/m <sup>3</sup> PEL 8hr TWA
Dodecanamide,N,N,Bis(2-Hydroxyethyl)	120-40-1	.1-2%			
1,2-bis(tetrabromophthalimido)ethane	32588-76-4		N/A		

## SECTION 3 PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point:	NA	Specific Gravity (Water = 1):	0.92 - 0.97
Vapor Pressure (mm Hg.):	NA	Melting Point: °F	215-280 °F
Vapor Density (Air = 1):	NA	Evaporation Rate:	NA
Solubility in Water: Insoluble	Appearance and Odor: Slight plastic Odor, Plastic laminate-Polyester fiber		

## SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used):	646 Deg. F ASTM E-136	Flammable Limits:	LEL	UEL
			NA	NA

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/corrosive 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:**

Antimony Oxides, Oxides, Oxides of Nitrogen, Hydrogen Bromide, Hydrogen Cyanide, CO<sub>2</sub> and CO when subjected to flames or excessive heat

**Hazardous Polymerization:** Will not occur

**SECTION 6 HEALTH HAZARD DATA****Health Hazards (Acute and Chronic):**

EMERGENCY OVERVIEW: Low hazard for usual industrial or commercial handling.

EYES: No fumes generated during normal use of this product.

SKIN: May cause sensitization by skin contact

Dust or residue may be irritating to skin

INGESTION: Ingestion is not expected to occur. If swallowed, may physically irritate digestive system.

INHALATION: No fumes or mist generated during normal use of this product.

ROUTES OF ENTRY: Skin

**Carcinogenicity:** NTP? None IARC Monographs? None OSHA Regulated? None

**Signs and Symptoms of Exposure:**

Inhalation: N/A

Absorption: N/A

Ingestion: N/A

**Medical Conditions Generally Aggravated by Exposure:**

Inhalation: None

Absorption: None

Ingestion: None

**Emergency and First Aid Procedures:**

Inhalation: N/A

Absorption: N/A

Ingestion: N/A

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

Steps to Be Taken in Case Material Is Released or Spilled: N/A

**Waste Disposal Method:** In accordance with local, state and federal regulations.

Precautions to Be Taken in Handling and Storage: N/A

Other Precautions: N/A

**SECTION 8 CONTROL MEASURES**

**Respiratory Protection:** None

**Ventilation:** None

**Eye Protection:** N/A

**Skin:** Wear suitable gloves to protect against specific hazard:

**Work Hygienic Practices:** Avoid contact with skin. Wash skin with soap and water if handling without gloves.

**SECTION 9 REGULATORY INFORMATION**

TSCA (Toxic Substance Control Act)

All components in this product (listed below) appear on the E.P.A. TSCA inventory:

<u>Chemical Name</u>	<u>CAS #</u>	<u>TSCA Section</u>
Polyethylene Homopolymer	9002-88-4	*
Calcium Carbonate (PW 18)	1317-65-3	*
Glycerides, Mono-and Di	67701-32-0	*
Dodecanamide,N,N-Bis(2-Hydroxyethyl)-	120-40-1	*
Ethanol 2,2 Iminobis	111-42-2	*

SARA Title III Superfund Amendments and Reauthorization Act)

311 Hazard Categories

Fire; No Pressure Generating: No Reactivity: No Acute: Yes Chronic: No

SARA 312: Chemical Name: Dodecanamide,N,N-Bis(2-Hydroxyethyl)- 120-40-1 %: <1.0

**SARA 313 Chemical Name: Antimony Compounds Percent by Weight: <20%**

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**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