

MATERIAL SAFETY DATA SHEET

DO NOT USE THIS PRODUCT UNTIL YOU HAVE READ THIS
INFORMATION

MSDS Prepared By:

TenCate Geosynthetics Americas
365 South Holland Drive
Pendergrass, GA 30567

Chemtrec Emergency:

24-hour Phone: (800) 424-9300
Nicolon Phone: (706) 693-2226
Date Prepared May 18, 2010
Revised: June 2014

Section 1: General Information

Trade Names and Synonyms: Products: Mirafi® RS280i, RS380i and RS580i

Chemical Names and Family: Polypropylene woven fabrics

Product Use: Construction Products

HMIS Ratings: Health 1, Fire 1, Reactivity 1, PPE (see section 6)

Section 2: Hazardous Ingredients/Identity Information

<u>Ingredient</u> (Chemical Name, CAS#, and Common Name)	<u>OSHA PEL or TWA</u>	<u>ACGIH TLV</u>	<u>Weight %</u>
Polypropylene resin (9003-07-0)	n/a	n/a	94%
Carbon Black (1333-86-4)	3.5 mg/cm TWA	3.5 mg/cm TWA	3.5%
N,N''''-(1,2 Ethanediy]bis(((4,6-Bis(Butyl (1,2,2,6-Pentamethyl-4-Piperidiny] Amino]-1,3,5-Triazin-2-Yl)lmino]-3,1-Propanediy])Bis[N''N''-Bis(1,2,2,6,6-Pentamethyl-4-Piperidiny]) (106990-43-6)	Not established	Not established	<1%
Butanedioic Acid, Dimethyl Ester, Polymer with 4-Hydroxy-2,2,6,6-Tetramethyl-1-Piperidineethanol	Not established	Not established	<1%
Proprietary Compound	n/a	n/a	2%

Section 3: Hazards Identification/Potential Effects

Overview: Based upon pertinent data available, polypropylene cloth products are not hazardous under OSHA Hazard Communication Standard (29 CFR

1910.120).

Routes of Exposure:

Inhalation: Inhalation of dust, fumes, or smoke generated during processing or burning of fabric may irritate respiratory tract and mucous membranes.

Skin contact: May sensitization by skin contact.

Eye Contact: Low hazard under normal handling.

Ingestion: Not likely to occur, but swallowed material may physically irritate the digestive system.

Symptoms of Acute Overexposure: Product may contain surface applied process lubricants that may cause skin to dry out.

Symptoms of Chronic Overexposure: No known health effects have been observed with normal use.

Medical Conditions Aggravated By Exposure: Persons with pre-existing skin disorders may be susceptible to effects of the material.

Carcinogenity: Carbon black is classified as a Group 2B possible human carcinogen. When encapsulated in a plastic matrix, risk of exposure is minimized.

Section 4: First Aid Procedures

Inhalation: Move affected person from exposure to fresh air if overcome by fumes, mist, dust, or adverse exposure to vapors and/or aerosols formed at elevated temperatures.

Skin Contact: Wash contact areas with soap and water. Consult physician in case of irritation. For hot product, immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention. Do not remove material from skin as the damaged flesh can be easily torn.

Ingestion: Not likely to be ingested in present form.

Section 5: Fire and Explosion Hazard Data

Flash Point (Method Used): Greater than 600° F (300° C)

Flammable Limits: LEL: N/A UEL: N/A **Extinguishing**

Media: Water Fog Carbon Dioxide
 Regular Foam Dry Chemical Other

Special Fire Fighting Procedures: Material will not burn unless preheated. Over heated or molten material may burn slowly with dense smoke. As with any fire, wear standard protective equipment and approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Not applicable

Section 6: Accidental Release Measures

No environmental threat is expected from release.

Section 7: Handling and Storage

Storage: Store in a cool, dry area away from oxidizing materials, open flames, heat sources, or sources of ignition. Minimize dust generation.

Handling: Use lifting devices as necessary to lift large rolls, otherwise, no special handling required. If product is molten, avoid contact with skin or eyes

Section 8: Exposure Controls

Ventilation Requirements: If process generates dust, use ventilation to keep exposure below exposure limit.

Personal Protective Equipment:

Eye Protection: Not normally required; safety glasses with side shields can be worn as a precaution.

Skin Protection: Not normally required. Persons with exposure sensitivity may need suitable gloves.

Respiratory Protection: Not required. If dust is generated in handling, wear appropriate respiratory protection to keep concentration below the permissible exposure limit.

Other Clothing and Equipment: Normal work clothing.

Section 9: Physical and Chemical

Boiling Point: N/A

Vapor Pressure (mm Hg.): N/A

Vapor Density (Air =1): N/A

Solubility in Water: Insoluble

Specific Gravity (H₂O=1): Less than 1

Evaporation Rate (Butyl Acetate=1): N/A

Melting Point: ~320°F

Appearance and Odor: Black and orange woven polypropylene fabric wound on a cardboard core, no odor.

Section 10: Stability and Reactivity

Stability: Stable Unstable

Conditions to Avoid: Keep away from elevated temperatures for prolonged periods, sparks, & flames

Incompatibility (Materials to Avoid): Strong oxidizers, fluorine

Hazardous Polymerization: May Occur Will Not Occur

Hazardous Decomposition Products (Including Combustion Products): Oxides of

nitrogen, carbon. Included, but not limited to are smoke, fumes, flammable hydrocarbons, and incomplete combustion products.

Section 11: Toxicological Information

Local Effects

Eye:	Not toxic
Skin:	No data available
Inhalation:	Negligible in ambient temperatures.
Ingestion:	N/A
Target Organs:	Skin, eyes, respiratory tract if dust is generated
Carcinogenicity:	Carbon black is classified as a Group 2B possible human carcinogen. When encapsulated in a plastic matrix, risk of exposure is minimized.

Mutagenitive and Reproductive Effects: Not considered to be mutagenic

Section 12: Ecological Information

Environmental Data: Not expected to be hazardous to the environment in present form.

Ecotoxicological Information: May be harmful to wildlife if ingested.

Ecological Comments: Keep out of waterways.

Section 13: Disposal Considerations

Disposal: Spent material should be recycled or disposed according to current regulations and applicable laws at time of disposal.

RCRA Hazard Class: Does not contain RCRA regulated materials.

Section 14: Transport information

DOT Classification: NOT REGULATED

Section 15: Regulatory Information

This product may contain ingredients in the additives in “De Minimus” quantities, which would be listed in SARA 311/313: Acute Health Hazard. At levels under 0.01% by weight, no “Reportable Quantities” will be reached with typical fabric inventories.

International Inventories

U.S. E.P.A. TSCA: All components in this product appear on the E.P.A.TSCA Inventory.

Canada DSL & NDSL: All components in this product appear on the DSL or NDSL.

U.S. Regulations

The following information pertains to the product:

Components	CERCLA/SARA 302 TPQ:	CERCLA/SARA 312:	CERCLA/SARA 313:
N,N''''-(1,2 Ethanediybis(((4,6-Bis(Butyl			
(1,2,2,6-Pentamethyl-4-PiperidinyI) Amino]-1,3,5-Triazin-2-YI)Imino]-3,1-PropanediyI)]Bis[N''N''-Bis(1,2,2,6,6-Pentamethyl-4-PiperidinyI)] (106990-43-6)		0.1 Deminimus	
Butanedioic Acid, Dimethyl Ester, Polymer with4-Hydroxy-2,2,6,6-Tetramethyl-1-Piperidineethanol		0.1 Deminimus	

The following pertains to the components:

MARTK, NJRTK, PARTK: None of the components are listed
California Proposition 65: None of the components are listed

Canada

Components	Canada – WHMIS: Classifications of Substances	Canada – Ingredient Disclosure
Butanedioic Acid, Dimethyl Ester, Polymer with4-Hydroxy-2,2,6,6-Tetramethyl-1-Piperidineethanol		

The information and recommendations contained in this publication have been compiled from sources believed to be reliable and to represent the best current opinion on the subject at the time of publication. Since we cannot anticipate or control the many different conditions under which this information or our products may be used, we make no guarantee that the recommendations will be adequate for all individuals or situations. Each user of the product described herein should determine the suitability of the described product for his particular purpose and should comply with all federal and state rules and regulations concerning the described products.

This page intentionally left blank.