



September 25, 2002

Dear Customer:

The enclosed Material Safety Data Sheet(s) (MSDSs) is/are being sent as a result of either a request or a recent product order from PGI Nonwovens.

The Occupational Safety and Health Administration (OSHA) mandates the issuance of MSDSs pursuant to the requirements of the Federal Hazard Communication Standard (29 CFR 1910.1200). Although MSDSs are required only for "hazardous chemicals", PGI Nonwovens typically prepares MSDSs for most of our products whether hazardous or not. Even for products determined not to be hazardous, PGI Nonwovens believes that MSDSs offer important handling and safety information. To the best of our knowledge, the enclosed MSDS(s) is/are in compliance with the requirements of the OSHA Hazard Communication Standard. In most cases, we have provided more information than is required by the Standard.

For more information about the contents of this MSDS, please contact the Regulatory Affairs' phone number listed on the sheet. To obtain copies of MSDSs on other PGI Nonwoven products, call (501) 399-2537 or fax your request to us at (501) 379-2415.

Thank you for your interest in PGI Nonwovens products.

Sincerely,

PGI Nonwovens - Regulatory Affairs

**PGI Nonwovens**  
2351 U.S. Route 130  
Dayton, NJ 08810-1004  
Telephone: 1-800-835-2442

Product Code: **8295**  
Issue Date: 09/25/02  
Supersedes: Rev. 5  
Supersedes Date: 11/26/01

## MATERIAL SAFETY DATA SHEET

### SECTION I - PRODUCT IDENTIFICATION

Product Code: 8295  
Product Name/Synonyms: **Quix<sup>®</sup> Cleaning & Sanitizing Foodservice Towel**  
Description: Dry, water activated, cleaning and sanitizing foodservice towel

### SECTION II - COMPOSITION, INFORMATION ON INGREDIENTS

Components	C A S No.	***Exposure Limits***	
		TWA (8 Hour)	Short Term (15 Min.)
Alkoxylated Fatty Alcohol	69227-21-0	None Established	None Established
Alkyloxypolyethyleneoxy- ethanol Alcohol Polyether	68439-50-9	None Established	None Established
N-Alkyl (68% C-12, 32% C-14) Dimethylethylbenzyl Ammonium Chlorides	68956-79-6	None Established	None Established
N-Alkyl (60% C-14, 30% C-16, 5% C-12, 5% C-18) Dimethylbenzyl Ammonium Chlorides	68956-79-6	None Established	None Established

### SECTION III - HAZARDS IDENTIFICATION

#### Health Effects:

Eyes: Causes eye irritation. Avoid contact with eyes  
Skin: Not a sensitizer when used as directed. Prolonged contact of towel with wet skin before activation in water could be irritating.  
Inhalation: N.A.  
Ingestion: N.A.

N.A. = Not Applicable

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### SECTION IV - FIRST AID MEASURES

#### First Aid Procedures:

- Eyes:** If there is contact with eyes, flush with plenty of water for at least 15 minutes and continue flushing until irritation subsides. If redness or irritation persists, contact a physician.
- Skin:** Use good personal hygiene and wash thoroughly after handling. If redness or irritation persist, contact a physician.
- Inhalation:** N.A.
- Ingestion:** N.A.

### SECTION V - FIRE FIGHTING MEASURES

	Flammable (Explosive) Limits (Percent by Volume)	
Flash Point(Specify Method):	N.A.	Lower Explosive Limit: N.A.
Flammability Class:	N.A.	Upper Explosive Limit: N.A.
Fire Extinguishing Media:	Water, Carbon Dioxide, Foam, Dry Chemical	
Special Fire Fighting Procedures:	None	
Unusual Fire & Explosion Hazards:	None known; expected to be similar to ordinary combustibles	

### SECTION VI - ACCIDENTAL RELEASE

Steps to be taken in case material is released or spilled: N.A.

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### SECTION VII - HANDLING AND STORAGE

Handling: None

Storage: Avoid storing near strong oxidizers.  
Avoid sources of ignition.  
Use caution when stacking to avoid unstable conditions.  
Store at temperatures below 140°F.  
Store in a dry environment; if laundered, towel should be air dried.  
Store in a sprinklered warehouse.

### SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye Protection: None required when used as intended.  
Gloves: None required when used as intended.  
Respiratory: None required.  
Ventilation: None required.  
Other: Product should not be used near eyes; after use wash hands before touching eyes.

### SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor:	Green Dry Towel	Boiling Point:	N.A.
Odor Threshold:	N.A.	Freezing Point:	N.A.
Specific Gravity (Water=1):	N.A.	pH:	N.A.
Vapor Density (Air=1):	N.A.	Solubility in Water:	N.A.
Vapor Pressure(mm of mercury):	N.A.		
Evaporation Rate:	N.A.		

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### SECTION X - STABILITY AND REACTIVITY

General Reactivity:	Stable
Incompatibility (Materials to Avoid):	N.A.
Hazardous Decomposition Products:	Not tested; expected to be normal combustion products of carbon, hydrogen, oxygen, including CO, CO <sub>2</sub> HCl
Hazardous Polymerization:	..X.. Will Not Occur                      ..... Will Occur
Conditions to Avoid:	N.A.

### SECTION XI - TOXICOLOGICAL INFORMATION

#### Reported Human Effects:

Based on Repeated Insult Human Patch tests on similar product, this fabric does indicate a potential for dermal irritation.

#### Reported Animal Effects:

Based on Primary Dermal Irritation test on similar product, that fabric is considered to be a mild irritant to the skin of the rabbit. The calculated Primary Irritation Index for the test article based on Draize Score was 1.13.

#### Reported Biological Reactivity Effects:

Severe biological reactivity (Grade 4) was observed in the L929 mammalian cells at 24, 48 and 72 hours, post exposure to the similar test article extract. Therefore, that test article is considered cytotoxic.

#### Carcinogenicity Information:

Not classifiable as a Human Carcinogen by ACGIH, IARC, EPA or NTP.

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### **SECTION XII - ECOLOGICAL INFORMATION**

Ecotoxicity:

No ecological studies have been carried out on this product.

### **SECTION XIII - DISPOSAL CONSIDERATION**

Waste Disposal Methods:

Dispose in accordance with Federal, State and local regulations. Be aware that state and local requirements may differ widely depending on location and may in many cases be different from federal rules.

When a decision is made to discard this material as supplied, it does not meet RCRA's (Resource Conservation and Recovery Act) characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

### **SECTION XIV - TRANSPORTATION INFORMATION**

Shipping Information:

Shipments of Quix<sup>®</sup> Pretreated, Water Activated Cleaning & Sanitizing Foodservice Towel are not regulated by the U.S. Department of Transportation (DOT). There is no identification number. No special labels are required.

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## SECTION XV - REGULATORY INFORMATION

### U.S. Federal Regulations

#### OSHA:

This MSDS is provided to comply with provisions of the Hazard Communication Standard (29 CFR 1910.1200).

#### EPA:

#### TSCA:

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

#### CERCLA Information (40CFR 302.4):

Releases of this material to land or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

#### SARA TITLE III, Section 313 Information (40CFR 372):

This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

#### CLEAN AIR ACT AMENDMENTS OF 1990:

This product and its packaging do not contain, nor are they manufactured with, any of the ozone-depleting substances listed in either Class I chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform) or Class II (hydrochlorofluorocarbons) of the Clean Air Act Amendments of 1990.

#### FIFRA:

EPA Registration No. 62401-1-69591.

#### FDA:

This product is not registered with the FDA. Therefore, it is not approved for use as articles or components of articles intended for repeated contact with food.

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USDA:

This product has not been evaluated by USDA for use in packaging material in direct contact with meat or poultry food products prepared under federal inspection.

State Regulations

California’s Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

This product contains trace levels of Ethylene oxide #75-21-8, 1,4-Dioxane CAS# 123-91-1, Formaldehyde CAS # 50-00-0, and Acetaldehyde CAS 75-07-0 known to the State of California to cause cancer, contributed by the binder and additives.

Massachusetts Right-to-Know, Hazardous Substance List (MSL):

This product contains trace levels of Ethylene oxide #75-21-8, 1,4-Dioxane CAS# 123-91-1, Formaldehyde CAS # 50-00-0, and Acetaldehyde CAS 75-07-0 known to the State of California to cause cancer, contributed by the binder and additives.

New Jersey Right-to-Know Hazardous Substance List:

This product contains trace levels of Ethylene oxide #75-21-8, 1,4-Dioxane CAS# 123-91-1, Formaldehyde CAS # 50-00-0, and Acetaldehyde CAS 75-07-0 known to the State of California to cause cancer, contributed by the binder and additives.

**SECTION XVI - OTHER INFORMATION**

PGI Nonwovens Hazard Rating		Scale
Health	1	4 = Extreme
Fire	1	3 = High
Reactivity	0	2 = Moderate
Special	---	1 = Slight
		0 = Insignificant

Ratings are based on PGI guidelines, and are intended for internal use.



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References Documentation: Component MSDS(s)  
2002 ACGIH Guide To Occupational Exposure Values  
The Book of Chemical Lists on CD-ROM, May 2002

**Important Notice:**

All statements, technical information and recommendations set forth herein are based on information or tests which PGI Nonwovens believes to be reliable as of the date of this material safety data sheet. However, nothing contained in this information is to be taken as a representation, guarantee, or warranty, for which PGI Nonwovens bears legal responsibility. PGI Nonwovens urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application(s).

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

**Abbreviations:**

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  
EPA = Environmental Protection Agency  
FDA = Food & Drug Administration  
USDA = United States Department of Agriculture

**Responsibility For This MSDS:**

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