

# Material Safety Data Sheet

## HyperKewl™ Evaporative Cooling Fabric

TechNiche International  
1948 Kellogg Avenue Carlsbad, California 92008  
Phone 760-476-0654 ~ Fax 760-931-8884

Updated: January 2009

### SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT TRADE NAME:** HyperKewl™ Evaporative Cooling Fabric  
Product # PEF 6519

**SYNONYMS:** Air-Laid Nonwoven, Evaporative Cooling Material

**FINISHED FORM:** Fabric-like sheets in rolls

**MADE FOR:** TechNiche International  
1948 Kellogg Avenue Carlsbad, California 92008

**EMERGENCY TELEPHONE NUMBER:** Phone 760-476-0654

### SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

47% Fluff Pulp  
33% Crosslinked Super Absorbent Polymer Fiber, Sodium Acrylate Copolymer  
20 % Bicomponent Polyolefin Bonding Fiber

### SECTION 3 HAZARDOUS IDENTIFICATION

#### SECTION 3.1 Emergency Overview

HyperKewl™ Evaporative Cooling Fabric is a white, fabric-like sheet that is virtually odorless and has felt-like drape and feel. It will burn if involved in a fire. Combustion products mainly will be compounds of carbon, hydrogen and oxygen, including carbon monoxide. This product will absorb large amounts of water and will become slippery when wet.

#### SECTION 3.2 Potential Health Effects by Route of Exposure

**EYE:** Dust from HyperKewl™ Evaporative Cooling Fabric may cause mechanical irritation to eyes.

**INGESTION:** HyperKewl™ Evaporative Cooling Fabric dust should not be harmful if swallowed in association with exposures below ACGIH guidelines (see SECTION 8.3).

**INHALATION:** HyperKewl™ Evaporative Cooling Fabric dust should not be harmful if inhaled in amounts below ACGIH exposure guidelines (see SECTION 8.3).

**SKIN ABSORPTION:** Unlikely to occur. HyperKewl™ Evaporative Cooling Fabric is a dry fabric-like sheet.

**SKIN CONTACT:** Repeated handling of bulk HyperKewl™ Evaporative Cooling Fabric may mechanically roughen hands.

### SECTION 4 FIRST AID MEASURES

**EYE:** Treat dust in eyes as foreign object. Flush with water to remove particles. Get

# Material Safety Data Sheet

## HyperKewl™ Evaporative Cooling Fabric

medical help if irritation persists.

**INGESTION:** None suggested. Dust should not be harmful if swallowed in association with exposures below ACGIH guidelines (see SECTION 8.3).

**INHALATION:** None suggested. Dust should not be harmful if inhaled in amounts below ACGIH exposure guidelines (see SECTION 8.3).

**SKIN CONTACT:** None suggested. Since HyperKewl™ Evaporative Cooling Fabric is not expected to irritate skin, get medical attention if irritation occurs.

### **SECTION 5 FIRE FIGHTING MEASURES**

#### **SECTION 5.1 Flammable Properties**

HyperKewl™ Evaporative Cooling Fabric is a fabric-like sheet that can be ignited and will burn with a self-sustained flame. Combustion products mainly will be compounds of carbon, hydrogen and oxygen, including carbon monoxide.

#### **SECTION 5.2 Explosion Properties**

As with any dust, HyperKewl™ Evaporative Cooling Fabric dusts are potential explosion hazards. Explosion depends on dust concentration, moisture content, fiber length and heating rate.

#### **SECTION 5.3 Extinguishing Media**

Water is effective to extinguish burning HyperKewl™ Evaporative Cooling Fabric.

#### **SECTION 5.4 Fire-fighting Instruction**

Keep personnel removed from and upwind of fire. Wear appropriate fire-fighting gear and respiratory protection.

### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

Collect for recovery or disposal.

### **SECTION 7 HANDLING AND STORAGE**

Store in cool, dry location away from heat sources, open flames and sparks. Avoid wet and humid conditions as HyperKewl™ Evaporative Cooling Fabric will absorb water and moisture.

### **SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION**

#### **SECTION 8.1 Engineering Controls**

Minimize practices that generate dust. Use general mechanical and/or local exhaust ventilation to keep dust concentrations below exposure guidelines (See SECTION 8.3).

#### **SECTION 8.2 Personal Protective Equipment**

**Eye/face protection:** Wear safety glasses or goggles where high dust levels are encountered.

**General:** Outer garments may be desirable in dusty areas.

# Material Safety Data Sheet

## HyperKewl™ Evaporative Cooling Fabric

Respiratory protection: Wear particulate filter and/or air-purifying respirator when allowable exposure limits may be exceeded.

Skin protection: Wear gloves to minimize potential mechanical irritation from handling product.

### SECTION 8.3 Exposure Guidelines

Particulates Not Otherwise Classified (PNO)	ACGIH TLV-TWA	10 mg/m <sup>3</sup> Inhalable 3 mg/m <sup>3</sup> Respirable
---	---------------	--

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	White, fabric-like sheet with felt-like drape and feel
ODOR:	Odorless
BOILING POINT:	Not Applicable
SPECIFIC GRAVITY:	(H <sub>2</sub> O = 1) Not Measured
VAPOR PRESSURE:	(mm Hg) Not Applicable
MELTING POINT:	Not Applicable
VAPOR DENSITY:	(AIR=1) Not Applicable
EVAPORATION RATE:	(Butyl Acetate=1) varies with environmental and use conditions
SOLUBILITY IN WATER:	Absorbs water, insoluble

### SECTION 10 STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable.
CONDITIONS TO AVOID:	Dust deposits on hot pipes and machines.
INCOMPATIBILITY WITH OTHER MATERIALS:	None known
HAZARDOUS DECOMPOSITION PRODUCTS:	None known.
HAZARDOUS POL YMERIZATION:	Will not occur

### SECTION 11 TOXICOLOGICAL INFORMATION

No data are available.

### SECTION 12 ECOLOGICAL INFORMATION

No data are available.

### SECTION 13 DISPOSAL CONSIDERATIONS

Landfill or incinerate in accordance with federal, state and local requirements.

### SECTION 14 TRANSPORT INFORMATION

HyperKewl™ Evaporative Cooling Fabric is a solid material (49 CFR 171.8). It is not explosive (49 CFR 173.50). It is not believed to be a flammable solid (49 CFR 173.124 Class 4, Divisions 4.1, 4.2 and 4.3). That is, HyperKewl™ Evaporative Cooling Fabric is neither a wetted explosive nor a self-reactive material. Furthermore, if tested, HyperKewl™ Evaporative Cooling Fabric would not be expected to exhibit a burning rate characteristic of readily combustible materials. HyperKewl™ Evaporative Cooling Fabric is neither an oxidizer nor an organic peroxide (49 CFR 173.127 Class 5, Divisions 5.1 and 5.2). HyperKewl™ Evaporative Cooling Fabric is neither poisonous material nor, when discarded as purchased, an infectious substance (49 CFR 173.130 Class 6, Divisions 6.1 and 6.2).

### SECTION 15 REGULATORY INFORMATION

# Material Safety Data Sheet

## HyperKewl™ Evaporative Cooling Fabric

### SECTION 15.1 U.S. Federal Regulations

#### EPA

##### TOXIC SUBSTANCES CONTROL ACT (TSCA):

HyperKewl™ Evaporative Cooling Fabric is made from chemical substances included in the Inventory of chemical substances manufactured or processed in the United States.

##### SOLID WASTE DISPOSAL ACT/RESOURCE CONSERVATION AND RECOVERY ACT (RCRA):

HyperKewl™ Evaporative Cooling Fabric, discarded as purchased, is not hazardous waste. HyperKewl™ Evaporative Cooling Fabric does not have characteristics of ignitability (40 CFR 261.21), corrosivity (40 CFR 261.22), or reactivity (40 CFR 261.23) and, based on knowledge of its composition, HyperKewl™ Evaporative Cooling Fabric should not exhibit the toxicity characteristic (40 CFR 261.24). Furthermore, HyperKewl™ Evaporative Cooling Fabric is not included among the lists of hazardous wastes at 40 CFR Part 261, Subpart D.

#### FDA

##### FOOD DRUG AND COSMETIC ACT:

HyperKewl™ Evaporative Cooling Fabric meets the device definition when used as components in absorptive napkins.

##### OSHA OCCUPATIONAL SAFETY AND HEALTH ACT:

HyperKewl™ Evaporative Cooling Fabric is defined as an article by the Hazard Communication Standard 29 CFR 1910.1200(c); and, as such, a Material Safety Data Sheet (MSDS) is not required for HyperKewl™ Evaporative Cooling Fabric. Nevertheless, this MSDS is provided to HyperKewl™ Evaporative Cooling Fabric customers as a service.

### SECTION 15.2 International Regulations

#### CANADA: CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)

HyperKewl™ Evaporative Cooling Fabric is a manufactured item under CEPA, and as such exempt from pre-market review.

#### EUROPEAN UNION (EU):

##### DIRECTIVE 67/548 (as amended by DIRECTIVE 92/32)

HyperKewl™ Evaporative Cooling Fabric is an article under DIRECTIVE 92/32, and as such exempt from pre-market review.

#### JAPAN: JAPAN MHW (MINISTRY OF HEALTH AND WELFARE) PROHIBITED INGREDIENTS FOR QUASI-DRUGS

Chemicals that may be found in HyperKewl™ Evaporative Cooling Fabric are either not included in the Japan Prohibited Ingredients List-Catamenial Pads (March, 1998); or, if included, are present at or below allowable levels.

### SECTION 16 OTHER INFORMATION

The above information is, in part, based on material safety data sheets supplied by the vendor of the raw materials used in these products. The information is believed to be correct as of the date hereof. However, no warranty of merchantability, fitness for use, or any other warranty is expressed or is implied regarding the accuracy of this data, the results to be obtained from the use of the material, or hazards connected with such use. Since the information contained herein may be applied under conditions beyond our control, and with which we may be unfamiliar, and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume responsibility for the results of its use. This information is furnished of the condition that the person receiving it shall make his or her own determination as to the suitability of the material for his or her particular purpose and the condition that he or she assumes the risk of his or her use thereof.