

# MATERIAL SAFETY DATA SHEET

Date Issued: 08/04/2009

MSDS No: LS1009

## Sports Advantage™ Mouthguard Material

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Sports Advantage™ Mouthguard Material  
**PRODUCT DESCRIPTION:** Thermal Forming Soft EVA  
**PRODUCT CODE:** 7500-140, -165, -180, 7500-170 thru 7500-175  
**PRODUCT FORMULATION NAME:** EVA - Mouthguard  
**CHEMICAL FAMILY:** Ethylene Vinyl Acetate Copolymer  
**GENERIC NAME:** Mouthguard Material

#### MANUFACTURER

Ortho Technology, Inc.  
 17401 Commerce Park Boulevard  
 Tampa, FL 33647  
**E-Mail:** ljohnson@orthotechnology.com  
**Product Stewardship:** 1-800-999-3161

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

For Chemical Emergency  
 Spill Leak or Fire Exposure or Accident  
 Call CHEMTREC Day or Night  
 Domestic North America 1-800-424-9300  
 International, Call +1 703-527-3887 (collect calls accepted)

### 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Sheets of Various Colors

**IMMEDIATE CONCERNS:** No unusual dermatitis hazard is expected from routine handling. Molten Polymer on skin may cause thermal burns.

This Product is not respirable as marketed - if irritation should occur, moved to a ventilated location.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Mechanical Irritation.

**SKIN:** No data are available. However, based on experience with handling these polymers, no unusual dermatitis hazard is expected from routine handling. Molten polymer contacting the skin will cause thermal burns.

**INGESTION:** The oral LD-50 in rats using one type of EVA is in excess of 1,000 milligrams per kilogram of body weight. Two week metabolic tests with dogs and rats showed no significant amount of polymer was retained by the animals. 90-day feeding studies in rats showed that EVA resins have low toxicity. Slight liver effects seen in animals fed diets containing 10% EVA; no effects were seen with diest 5% EVA. Overall, no important body systems or organ dysfunction occurred at either does level.

**INHALATION:** Polymer is not respirable as marketed. At processing temperatures above 204 degrees C, fumes irritating to the eye, nose and throat may be produced. Exposure may result in redness, tearing and itching in the eyes together with soreness in the nose and throat with coughing.

**MEDICAL CONDITIONS AGGRAVATED:** None Known

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Vol. %	CAS	EINECS
Ethylene Vinyl Acetate Copolymer	> 98	24937-78-8	N/A
Vinyl Acetate	< 0.3	108-05-4	203-545-4
Process Aids	< 2	N/A	N/A

### 4. FIRST AID MEASURES

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**EYES:** Flush eye thoroughly, for minimum 15 minutes with water. Get medical help if discomfort persists.

**SKIN:** The compound is not likely to be hazardous by skin contact but cleansing the skin after use is advisable. If burned by contact with molten material, cool as quickly as possible with water and see physician for treatment of the burn if necessary.

**INHALATION:** Remove to fresh air. Get medical help if discomfort persists.

### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** 260°C (500°F) Open Cup

**FLAMMABLE LIMITS:** N/A to N/A

**AUTOIGNITION TEMPERATURE:** N/A

**GENERAL HAZARD:** Solid material may burn at or above the flashpoint, and airborne dust may explode if ignited. Toxic gases will form upon combustion. Static discharge, material can accumulate static charges which can cause incendiary electrical discharge.

**EXTINGUISHING MEDIA:** Water, Foam, Dry Chemical. CO<sub>2</sub>

**FIRE FIGHTING PROCEDURES:** Use water spray to cool fire exposed surfaces, protect personnel and extinguish the fire. Respiratory and eye protection are required for fire fighting personnel.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxygen-lean conditions may produce carbon monoxide and irritating smoke. Acetic Acid.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Shovel or vacuum up spilled product and place in closed container for disposal. Do not flush into sewer, stream or other bodies of water.

### 7. HANDLING AND STORAGE

**HANDLING:** See First Aid and Personal Protective Equipment Sections.

**STORAGE:** Store in a cool, dry place. Keep container closed to prevent contamination.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** VENTILATION - Local ventilation must be used over processing equipment to maintain vinyl acetate concentrations in air below the PEL.

Use static controls. Static charges can build up and ignite dust or solvent laden atmospheres.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear Safety glasses with side shields where contact is likely with open ambient temperatures. (-18 to 38 deg C / 0 -100 degrees F)

**SKIN:** Recommend gloves to prevent skin irritation in hypersensitive individuals.

**RESPIRATORY:** A NIOSH/MSHA approved type respirator with organic vapor cartridge with dust mask/filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

**PROTECTIVE CLOTHING:** Where contact with hot material may occur, wear thermal resistant gloves, arm protection, protective footwear and a face shield.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Solid Sheets

**ODOR:** Mild ester-like

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**APPEARANCE:** Various Color Solid Sheets  
**COLOR:** Various colors  
**pH:** N/A  
**PERCENT VOLATILE:** N/A  
**VAPOR PRESSURE:** N/A  
**VAPOR DENSITY:** N/A  
**BOILING POINT:** N/A  
**FREEZING POINT:** N/A  
**FLASHPOINT AND METHOD:** 260°C (500°F) Open Cup  
**SOLUBILITY IN WATER:** Insoluble  
**EVAPORATION RATE:** N/A  
**SPECIFIC GRAVITY:** 0.910 to 0.97

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable.  
**POLYMERIZATION:** Will not occur.  
**CONDITIONS TO AVOID:** None  
**HAZARDOUS DECOMPOSITION PRODUCTS:** None.  
**INCOMPATIBLE MATERIALS:** Incompatible or can react with strong Acids, oxidizing agents.

### 11. TOXICOLOGICAL INFORMATION

**ACUTE**  
**DERMAL LD<sub>50</sub>:** Not Established  
**ORAL LD<sub>50</sub>:** Not Established  
**INHALATION LC<sub>50</sub>:** Not Established  
**SUBCHRONIC:** Not Established  
**IRRITATION:** Not Established  
**SENSITIZATION:** Not Established  
**MUTAGENICITY:** Not Established

### 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** No Information Available. Toxicity is expected to be low based on insolubility in water.

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** May be disposed of in a landfill or incinerated. Follow Federal, State and Local regulations for disposal.

### 14. TRANSPORT INFORMATION

**COMMENTS:** Not Hazardous Materials or Dangerous Goods per USDOT/IATA/ICAO.

### 15. REGULATORY INFORMATION

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### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** This product is classified into the following categories Delayed Health. This information may be subject to the revisions of the Community Right to Reporting Requirements (40CFR370) if threshold quantity criteria are met.

**313 REPORTABLE INGREDIENTS:** This product contains the following section 313 reportable ingredients:

Component : Vinyl Acetate, CAS No. 108-0-4 Maximum%- 0.2%

#### 302/304 EMERGENCY PLANNING

**EMERGENCY PLAN:** None

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

**TSCA REGULATORY:** None

**TSCA STATUS:** None

**RCRA STATUS:** None

**OSHA HAZARD COMM. RULE:** None

**CLEAN WATER ACT:** None

**FDA (FOOD AND DRUG ADMINISTRATION):** None

### 16. OTHER INFORMATION

**REASON FOR ISSUE:** Updated Chemical Composition

**APPROVED BY:** J. Hutchins      **TITLE:** QA / RA Director

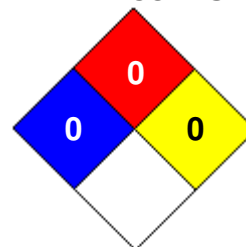
**PREPARED BY:** T. Swan

**INFORMATION CONTACT:** 1-800-999-3161

#### HMIS RATING

<b>HEALTH</b>	<input type="text" value="0"/>	<input type="text" value="0"/>
<b>FLAMMABILITY</b>	<input type="text" value="0"/>	<input type="text" value="0"/>
<b>PHYSICAL HAZARD</b>	<input type="text" value="0"/>	<input type="text" value="0"/>
<b>PERSONAL PROTECTION</b>	<input type="text" value="0"/>	<input type="text" value="0"/>

#### NFPA CODES



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