

SAFETY DATA SHEET

Date Issued: 08/04/2009

MSDS No: LS1009

Sports Advantage™ Mouthguard Material

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

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

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

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. CO₂

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

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

FLAMMABLE LIMITS: N/A to N/A

AUTOIGNITION TEMPERATURE: N/A

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

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 LD₅₀: Not Established

ORAL LD₅₀: Not Established

INHALATION LC₅₀: 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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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

MANUFACTURER DISCLAIMER: The above information is based on presently available data and to the best of our knowledge for handling the product under normal conditions. Any use of this product in any way not indicated on this document or using it together with any other process/procedure will be exclusively under the user's responsibility.