

# SAFETY DATA SHEET

Date Issued: 08/04/2009

MSDS No: LS1008

## Clear Advantage™ Series I Clear Retainer Material

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

**PRODUCT NAME:** Clear Advantage™ Series I Clear Retainer Material

**PRODUCT DESCRIPTION:** Clear Retainer Material, Thermal Forming Splint/Copolyester

**PRODUCT CODE:** 7500-100, 7500-105, 7500-110, 7500-035, 7500-040

**CHEMICAL FAMILY:** Cellulose Acetate

**GENERIC NAME:** Splint Material

#### MANUFACTURER

Ortho Technology, Inc.  
17401 Commerce Park Boulevard  
Tampa FL 33647

**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. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS	EINECS	Content
Cellulose Acetate	9004-35-7	NA	> 60
Diethyl Phthalate	84-66-2	201-550-6	< 40

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Clear Sheets

**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.

Note to physicians, burns should be treated as thermal burns. Product is a polymer of low toxicity; therefore, there is no need to remove it from the skin because of concern about toxicity. The polymer will come off as healing occurs.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Low hazard for usual industrial handling.

**SKIN:** Molten material will produce thermal burns.

**INGESTION:** Low hazard for usual industrial handling.

**INHALATION:** Low hazard for usual industrial handling.

**MEDICAL CONDITIONS AGGRAVATED:** None known.

### 4. FIRST AID MEASURES

**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

# SAFETY DATA SHEET

Date Issued: 08/04/2009

MSDS No: LS1008

## Clear Advantage™ Series I Clear Retainer Material

physician for treatment of the burn if necessary.

**INGESTION:** No specific intervention is indicated as compound is not likely to be hazardous by ingestion. Consult a physician if necessary.

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

### 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Water Spray, Dry Chemicals, Foam, 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.

### 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:** Keep from contact with oxidizing materials.

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

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** VENTILATION - Good General Ventilation (typically 10 air changes per hour) should be sufficient to control airborne levels. Ventilation rates should be matched to conditions.

Supplementary local exhaust ventilation, closed systems or respiratory protection may be needed in special circumstances such as poorly ventilated areas, mechanical generation of dusts, heating, drying, etc.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Safety glasses or side shields recommended.

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

**RESPIRATORY:** If respiratory protection is needed, an appropriate NIOSH approved respirator should be worn.

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

**WORK HYGIENIC PRACTICES:** Good industrial hygiene practice should be followed which includes minimizing skin contact.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**FLASHPOINT AND METHOD:** Not Applicable

# SAFETY DATA SHEET

Date Issued: 08/04/2009  
MSDS No: LS1008

## Clear Advantage™ Series I Clear Retainer Material

---

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

**AUTOIGNITION TEMPERATURE:** Not Applicable

**PHYSICAL STATE:** Solid Sheets

**ODOR:** Low Odor

**APPEARANCE:** Clear Sheets

**COLOR:** Clear

**pH:** Not Applicable

**PERCENT VOLATILE:** Not Applicable

**VAPOR PRESSURE:** Not Applicable

**VAPOR DENSITY:** Not Applicable

**BOILING POINT:** Not Applicable

**FREEZING POINT:** Not Applicable

**SOLUBILITY IN WATER:** Negligible

**EVAPORATION RATE:** Not Applicable

**SPECIFIC GRAVITY:** > 1.000

**VISCOSITY:** Not Applicable

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable.

**POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** As with any organic material, combustion will produce carbon dioxide and probably carbon monoxide. Oxides of phosphorus and phosphine may also be present.

**INCOMPATIBLE MATERIALS:** Oxidizing materials can cause a reaction.

### 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

# SAFETY DATA SHEET

Date Issued: 08/04/2009

MSDS No: LS1008

## Clear Advantage™ Series I Clear Retainer Material

---

**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:** Non-hazardous, not regulated.

### 15. REGULATORY INFORMATION

### 16. OTHER INFORMATION

**REASON FOR ISSUE:** New MSDS Format

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

**PREPARED BY:** T. Swan

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

**REVISION SUMMARY:** New MSDS

**MANUFACTURER DISCLAIMER:** The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Ortho Technology assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by this material. Such vendees or users assume all risks associated with the use of the material.