

MATERIAL SAFETY DATA SHEET

Date Issued: 08/04/2009

MSDS No: LS1008

Clear Advantage™ Series I Clear Retainer Material

1. PRODUCT AND COMPANY IDENTIFICATION

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. 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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Vol. %	CAS
Cellulose Acetate	> 60	9004-35-7
Diethyl Phthalate	< 40	84-66-2

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

MATERIAL SAFETY DATA SHEET

Date Issued: 08/04/2009

MSDS No: LS1008

Clear Advantage™ Series I Clear Retainer Material

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.

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

FLASHPOINT AND METHOD: Not Applicable

FLAMMABLE LIMITS: N/A to N/A

AUTOIGNITION TEMPERATURE: Not Applicable

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

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.

MATERIAL SAFETY DATA SHEET

Date Issued: 08/04/2009

MSDS No: LS1008

Clear Advantage™ Series I Clear Retainer Material

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

9. PHYSICAL AND CHEMICAL PROPERTIES

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

FLASHPOINT AND METHOD: 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 LD₅₀: Not Established

ORAL LD₅₀: Not Established

MATERIAL SAFETY DATA SHEET

Date Issued: 08/04/2009

MSDS No: LS1008

Clear Advantage™ Series I Clear Retainer Material

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: Non-hazardous, not regulated.

15. REGULATORY INFORMATION

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.

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: None

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: None

TSCA STATUS: None

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS: None

RCRA STATUS: None

OSHA HAZARD COMM. RULE: None

CLEAN WATER ACT: None

FDA (FOOD AND DRUG ADMINISTRATION): None

MATERIAL SAFETY DATA SHEET

Date Issued: 08/04/2009

MSDS No: LS1008

Clear Advantage™ Series I Clear Retainer Material

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.