



# Codonics ChromaVista® CVP ChromaVista® White Film

Color White Film (CVP) Safety Data Sheet (SDS)

## **Section 1: Identification of Substance**

1.1. Product Identifier/Article Name:

ChromaVista® (CVP)/ChromaVista® White Film

1.2. Article Type and Identified Uses:

Thermographic "paper like" reflective film for medical imaging applications.

### 1.3. Details of Supplier Safety Data:

The information contained here is based on Codonics best knowledge and experience. This data sheet does not convey any warranty as to the properties of this article. The data sheet provides information pertaining to health, safety, and environmental concerns when the article is used as intended.

Codonics Inc., an established and reputable manufacturer of medical class equipment approved for export as indicated via FDA Certificate of Foreign Government certificate NO# 702-10-2022, with headquarters and production facilities (FDA Establishment Registration: 1530958, Owner Operator Number: 9026554) located at 17991 Englewood Drive Middleburg Heights, OH 44130 USA

**1.4. Responsible Person:** Quality Assurance Manager.

**1.5 Emergency Phone:** If there are additional questions or you require further assistance, please call us at +1.440.243.1198 and request to speak with the Quality Assurance Manager

## **Section 2: Hazards Identification**

# 2.1 Classification of substance: Poly(oxy-1,2-ethanediyloxycarbonyl-1,4-phenylenecarbonyl)

ChromaVista White Film (CVP) is a direct thermographic film consisting of a support layer, an image forming layer, and a top protective layer. The support layer is made of polypropylene (PP). The image-forming layer mainly consists of a sublimation polymer. This layer received the dye sublimation film (ribbon) from which color is released under thermal radiant energy. The transparent top layer, which is coated on top of the imaging-forming layer, is heat conducting and chemically stable to heat. The recording on ChromaVista White Film (CVP) is created by a thermal radiant energy printhead in Codonics printers.

#### 2.2 Label Elements:

The Polypropylene BOPP Film support layer accounts for about 87% of the weight of the film material. The image-forming layer mainly consists of a thermally-receiving dye from the sublimation ribbon in a polymer.

Non-Hazardous Components (more than 1%)	CAS No.	%
Polyetylene-terephthalate	25038-59-9	57.5%
Acrylonitrile-butadiene-styrene copolymers	9003-56-9	25.9%
Isocyanate-prepolymer	9046-75-7	3.7%
Polyvinyl-alkylacetal	65652-37-1	2.9%
Polyvinyl-butyral	70775-95-0	1.6%
Slipping agent	39464-66-9	1.2%
Polyester	700 M 20 000	1.1%
SECTION 3 -Physical / Chemical Ch	aracteristics	
Boiling Point : NA	Specific Gravity(H20=1):	NA
Vapor Pressure(mmHg): NA	Melting Point: NA	
Vapor Density(AIR=1) : NA	Evaporation Rate : NA (Butyl Acetate=1)	
Solubility in Water : Insoluble (<1m	ng/1)	
Appearance and odor : Ribbon : 3 Co.	lors(Yellow, Magenta, Cyan), odorless	

#### 2.3 Other Hazards:

ChromaVista White Film (CVP) will not cause any special health or safety hazards when used as intended. Not a hazardous substance or mixture.

# **Section 3: Composition**

**3.1 General:** The molecular formula is:  $(C_3H_6)_n$ . The density is 0.855 g/cm3, amorphous 0.946 g/cm3, crystalline. These resin pellets are then heated to a molten liquid that can be easily extruded or molded into sheets and plates for coating. **3.2 Mixtures:** 

#### Polypropylene Terephthalate Basic information

Product Name:	BOPP (Polypropylene)
Synonyms:	arnitea;arnitea-049000;arnitea200;arnitefp800;arniteg;arniteg600;Cassappret sr; cassappretsr
CAS:	Polypropylene (CAS Reg. No. 9003-07-0).
MF:	C22H4203
MW:	228.19868
Hazard Code:	Xi
Product Categories:	PP polymer, a linear, thermoplastic polypropylene resin

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

None found.

GHS Label elements, including precautionary statements, None Found

## Section 4: Health and Safety

**4.1 Health Aspects:** Under normal transport, storage, and use conditions, no harmful concentrations of volatile components are released from ChromaVista White Film (CVP) and will not cause any special health or safety hazards when used as intended.

### 4.2. Description of first-aid measures:

- If inhaled or if breathed in: Move person into fresh air.
- If not breathing: Give artificial respiration.
- In case of skin contact: Wash off with soap and plenty of water.
- In case of eye contact: Flush eyes with water as a precaution.
- If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

## Section 5: Fire Hazard and Media Extinguishment

**5.1** The film support layer of ChromaVista White Film (CVP) is made of BOPP (Biaxially oriented thermoplastic polypropylene) and meets the "Safety Film" specifications as described in ANSI/ISO 543-1990. Safety film passes the ignition test when ignition time is = 10 minutes. It passes the burning time test when the burning time is > 45 seconds for a film thickness = 0.08 mm or when the burning time is > 30 seconds for a film thickness < 0.08 mm. ChromaVista White Film (CVP), is approximately 0.20 mm thick.

This product is capable of burning. The flash point of is 390°C (734°F). The ignition point is 485°C (905°F). The nature of any combustion products is dependent on the physical properties of the combustion process and on the degree of combustion, whereby different gases can be generated, such as water vapor, carbon dioxide, carbon monoxide, and small concentrations of organic and inorganic degradation products.

- **5.2** Combustion of ChromaVista White Film (CVP) can lead to the formation of gases similar in composition to the volatile organic and inorganic degradation products of the support layer. Carbon dioxide, carbon monoxide, small amounts of nitrogen oxides and sulfur oxides etc. can be generated depending upon the burning conditions.
- **5.3** Fire extinguishing media: Water spray, carbon dioxide, extinguishing powder or foam can be used as an extinguishing media. While fire-fighting, wear protective equipment such as self-contained breathing apparatus, depending on the fire situation.

### **Section 6: Accidental Release**

**6.1** Flat film plates are inert and there are no special environmental precautions required.

# Section 7: Handling and Storage

**7.1** For specific information on storage conditions of ChromaVista White Film (CVP), please refer to the general instructions for use of this article. Make sure to keep unrecorded film in its original packaging, stored in a cool, dark place (25°C or

below). Observe handling and storing of recorded film: Store recorded film in a cool, dry place (low temperature and low humidity). The higher the temperature and humidity, the more the density of recorded images will increase. Long-term storage at high temperatures, high humidity and/or direct sunlight conditions may cause discoloration. Do not store or handle near open flames, sources of heat, or other sources of ignition. The storage conditions are:

- Store between 0°C (32°F) min and 25°C (77°F) max
- Keep dry
- Avoid exposure to light and background radiation higher than 90nGy/h
  These conditions are also mentioned on the product label.

# **Section 8: Exposure Control/Personal Protection**

None

# **Section 9: Physical and Chemical Properties**

#### **Polypropylene Chemical Properties**

Melting point 130 to 171 °C (266 to 340 °F; 403 to 444 K)

Boiling point >170°C (338°F) (Press: 10 Torr)

density 0.855 g/cm<sup>3</sup>, amorphous 0.946 g/cm<sup>3</sup>, crystalline

storage temp. Room Temperature

form Sheets color White Base

**EPA Substance** 

Registry System Polypropylene (CAS Reg. No. 9003-07-0).

# Section 10: Stability and Reactivity

**10.1 Reactivity:** No data available

**10.2 Chemical stability:** Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions: No data available

10.4 Conditions to avoid: No data available

10.5 Incompatible materials: Strong oxidizing agents

# Section 11. Toxicological Information

#### 11.1 Acute toxicity

Oral: No data available

• Inhalation: No data available

• Dermal: No data available

• Skin corrosion/irritation: No data available

• Serious eye damage/eye irritation: No data available

Respiratory or skin sensitization: No data available

• Germ cell mutagenicity: No data available

- Carcinogenicity IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- Reproductive toxicity: No data available
- Specific target organ toxicity single exposure: No data available
- Specific target organ toxicity repeated exposure: No data available
- Aspiration hazard: No data available

## Section 12: Ecological information

- **12.1 Toxicity:** No data available
- **12.2 Persistence and degradability:** No data available
- **12.3 Bio accumulative potential:** No data available
- **12.4 Mobility in soil:** No data available
- **12.5 Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
- 12.6 Endocrine disrupting properties: No data available
- 12.7 Other adverse effects: No data available

## Section 13: Waste Disposal

Regulations concerning waste disposal differ from country to country. Please consult the local regulations on this subject. In most countries, ChromaVista White Film (CVP) is considered an industrial waste and consequently it is not allowed to be disposed of as household waste. Codonics recommends having waste ChromaVista White Film (CVP), hauled away by a licensed recycler company for industrial waste. Waste should be treated separately from conventional BOPET-based waste, when the latter is subjected to BOPET recycling. These films, when discarded, are not regulated as a hazardous waste under the Resource Conservation and Recovery Act (RCRA).

# Section 14: Transport and Labeling Regulations:

DirectVista Film is an article as defined in 29 CFR1910.1200 and is thus not subject to the regulations on transport, labeling, health, safety, and environment that apply to chemical substances and preparations. Transboundary transport of silvercontaining waste is subject to legislation based on the Basel Treaty and OECD Rules.

- DOT (US): Not dangerous goods
- IMDG: Not dangerous goods
- IATA: Not dangerous goods
- Further information: Not classified as dangerous in the meaning of transport regulations.

## **Section 15: Regulatory:**

- SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- SARA 311/312 Hazards: No SARA Hazards
- California Prop. 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### **Section 16: Other Information**

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