



## SAFETY DATA SHEET

### SECTION 01 – IDENTIFICATION

**Product Name/Identifier:**

ChromaLuxe Hardboard Photo Panels, ChromaLuxe Hardboard products, Unisub Hardboard Signage, Unisub Hardboard products

**Recommended Use:**

Hard Surface Sublimation Photographic and Signage Media

**Supplier Identification:**

Universal Woods LLC  
2600 Grassland Dr.  
Louisville, KY 40299-2591  
USA  
Emergency Telephone No: (502) 491 1477  
Other Information Calls: (502) 491 1461

**Emergency Information:**

CHEMTREC (24 hrs)  
U.S./North America: (800) 424-9300  
International: (703) 527-3887

### SECTION 02 – HAZARD(S) IDENTIFICATION

**GHS-US Hazard Classification**

This product is an article as defined under OSHA regulation 29 CFR 1910.1200. In its manufactured and shipped form, this product does not present hazards leading to physical or health hazards under GHS hazard classification.

Further processing downstream (sawing, sanding, drilling) which will alter the present form may change the hazardous nature of the product. The classification presented below is based on the potential of chemical exposure upon alteration of the present form:

**Health Hazards**

**Eyes.** Direct contact with eyes may cause temporary irritation. (Category 2B)

**Skin.** Wood dust: Certain species may cause allergic dermatitis to certain individuals. (Category 1A)

**Respiratory.** Wood dust: May cause nasal dryness, irritation and mucostasis. Coughing, wheezing, sneezing, sinusitis and prolonged colds have also been reported. Depending on wood species may cause respiratory sensitization and/or irritation. (Category 1)

**Carcinogenicity.** Respiratory tract (Category 1A)

**Specific Target Organ Toxicity, single exposure.** Respiratory tract (Category 3)

**Specific target organ toxicity, repeated exposure.** Respiratory tract (Category 1)

**Environmental Hazards.** Not classified

**OSHA Defined Hazards.** Combustible Dust. May form combustible dust concentrations in air (during processing).

**Label Elements:**



**Signal Word.** Danger

### SECTION 03 – COMPOSITION/INFORMATION ON INGREDIENTS

**Please Note:** Other components used in the sublimation process such as inks are separate materials and are not covered in this SDS.

| <u>Chemical Name</u> | <u>CAS Number</u> | <u>Weight %</u> |
|----------------------|-------------------|-----------------|
| Wood Dust            | 50-00-0           | 60 - 100        |

Surface finishes are factory applied. These products are classified as an “article” according to 29 CRF 1910.1200(c). They do not release any hazardous chemical under normal conditions of use.

### SECTION 04 – FIRST-AID MEASURES

**Inhalation:** If symptomatic, move to fresh air. Get medical attention if symptoms persist.

**Eyes:** Do not rub eyes. Flush eyes with large amounts of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if symptoms persist.

**Skin:** Wash with soap and water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.

**Ingestion:** If wood or wood dust is swallowed, get medical attention. Do not induce vomiting.

### SECTION 05 – FIRE-FIGHTING MEASURES

**Flammable Properties:** Burning of wood can produce irritating fumes and gases including carbon monoxide and carbon dioxide. As shipped, this product does not present an explosion hazard. Sawing, drilling, sanding, or machining this product could result in the creation of wood dust. Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard.

**Suitable Extinguisher Media:** Extinguish with foam, carbon dioxide, dry powder or water fog. Apply carefully to avoid creation of airborne dust which is potentially explosive.

**Unsuitable Extinguisher Media:** High pressure or heavy water stream may cause dust to become airborne and create a flash-fire hazard or explosive atmosphere.

**Specific Hazards Arising from the Chemical:** Thermal decomposition can lead to release of irritating gases and vapors. Avoid airborne dust formation which may ignite or explode.

**Fire Fighting Procedures:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Do not breathe fumes. Remove product from fire area if possible without risk to human life.

### SECTION 06 – ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear appropriate personal protective equipment (see Section 8) and ensure adequate ventilation.

**Environmental Precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. (see Section 12 for additional Ecological information)

**Methods for Cleaning Up:** Sweep or scoop up and remove. Non-sparking tools should be used. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are

released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air), vacuum dust with ignition-proof vacuum or wet sweep (water mist) and place in an appropriate container for disposal (see Section 13).

## SECTION 07 –HANDLING AND STORAGE

**Safe Handling:** Handle in accordance with good industrial hygiene and safety practices. Keep away from heat/sparks/open flames/hot surfaces. Avoid contact with eyes, skin, and clothing, wear proper PPE. Avoid breathing dust. Follow good housekeeping to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Minimize dust generation and accumulation and ensure dust collection systems are protected with fire and explosion prevention equipment. See NFPA 664 and NFPA69 for further information and guidance.

**Storage:** Store flat in a cool and dry place. Store away from incompatible materials (see Section 10).

## SECTION 08 –EXPOSURE CONTROLS / PERSONAL PROTECTION

| Component   | ACGIH TLV  | NIOSH PEL                          | OSHA Table Z1 | OSHA Table Z3  |
|---|--|------------------------------------|---------------|--|
| Wood dust (and/or lingo-cellulosic fibers)<br>(CAS – N/A) | TWA: 1 mg/m <sup>3</sup><br>(Inhalable fraction) | TWA: 1 mg/m <sup>3</sup><br>(Dust) |               | TWA: 15 mg/m <sup>3</sup><br>(total dust)<br><br>TWA: 5 mg/m <sup>3</sup><br>(respirable fraction) |

**Exposure Guidelines:** Additional Occupational Exposure Limit information for Wood Dust:

California OELs: 8hr TWA: 5 mg/m<sup>3</sup>; 15-minute STEL 10 mg/m<sup>3</sup>.

Oregon OELs: 8hr TWA: 10 mg/m<sup>3</sup>.

Tennessee OELs: TWA: 5 mg/m<sup>3</sup>; STEL: 10 mg/m<sup>3</sup>.

**Engineering Controls:** Ensure adequate ventilation, especially in confined areas. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

### Personal Protective Equipment

**Eye Protection:** As shipped, this product does not pose a risk to eyes. During further processing, safety glasses required.

**Skin Protection:** It is good industrial hygiene practice to minimize skin contact. Wear suitable gloves and other impervious protective clothing as recommended by those manufacturers.

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved NIOSH dust mask or filtering face mask should be worn. If respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Respirator type: High-efficiency particulate respirator.

**General hygiene consideration:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## SECTION 09 –PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and Odor:** Unisub & ChromaLuxe Hardboard items are shaped as a rigid panel or plaque.

**Physical State:** Solid

**Color:** Various.

**Odor:** None to slight. The sublimation or engraving process could also create an odor.

**Odor threshold:** Not available.  
**pH:** Not available  
**Melting Point/Freezing Point:** Not applicable  
**Initial Boiling Point/Boiling Range:** Not available  
**Flash Point:** Not applicable  
**Evaporation Rate (BuAc = 1):** Not available  
**Flammability (solid, gas):** Not available  
**Upper/lower flammability or explosive limits:**  
     **Flammability limit-lower (%)** Not available  
     **Flammability limit-upper (%)**: Not available  
     **Explosive limit-lower (%)**: Not available.  
     **Explosive limit-upper (%)**: Not available.  
**Vapor Pressure (mm Hg):** Not applicable  
**Vapor Density (Air = 1):** Not applicable  
**Relative Density:** Not available  
**Solubility (water):** Not available  
**Partition Coefficient (n-octanol/water):** Not available  
**Specific Gravity:** 0.81 - 1.07  
**Auto-ignition temperature:** Not available  
**Decomposition temperature:** Not available  
**Viscosity:** Not available  
**Dust Explosion Properties:** ST Class 1 (weak explosion)  
**Flammable Properties:** Not flammable  
**Explosive Properties:** Not available  
**Flash Point Class:** Not available  
**Oxidizing Properties:** Not available

## SECTION 10 –STABILITY AND REACTIVITY

**Reactivity:** No data available  
**Chemical Stability:** Material is stable under normal conditions of use.  
**Possibility of Hazardous Reactions:** No dangerous reactions known under normal conditions of use.  
**Conditions to Avoid:** Dust accumulation, dispersion of dust in air, high temperatures, open flame, sparks, or other sources of ignition.  
**Incompatibility (Materials to Avoid):** Strong acids, alkalis, and oxidizing agents.  
**Hazardous Decomposition Products:** Thermal decomposition may emit irritating fumes or gases of carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), aldehydes, or organic acids.  
**Hazardous Polymerization:** Does not occur.

## SECTION 11 –TOXICOLOGICAL INFORMATION

As sold, this product presents no hazards during handling and storage. Further processing (sawing, sanding, machining) may expose the user to potential hazards. The following information is based on that type of exposure.

### Information on likely routes of exposure.

**Inhalation.** Inhalation of dust may cause irritation to the respiratory system (difficulty breathing). Prolonged inhalation may be harmful.

**Skin contact.** Contact with dust may cause mechanical irritation or drying of the skin.

**Eye contact.** Contact with dust may cause mechanical irritation.

**Ingestion.** Not applicable under normal conditions of use. May result in obstruction or temporary irritation of the digestive tract.

**Acute effects:** The dust, which may be generated during manual or mechanical cutting, drilling, sanding, or other abrading processes and the smoke generated by heating or cutting, may cause temporary irritation of the eyes and respiratory tract. Prolonged skin contact may cause temporary irritation.

**Chronic Effects:** Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

**Germ Cell Mutagenicity:** No information available.

**Carcinogenicity:** Due to the form of the product, exposure to the potentially carcinogenic components is not expected. Potentially carcinogenic components are typically only present in trace amounts. Wood dust generated from sawing, sanding or machining this product may cause nasal dryness, irritation, coughing and sinusitis. The International Agency for Research on Cancer (IARC), and National Toxicology Program (NTP) classifies wood dust as a carcinogen. This classification is based on the increased occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to wood dust. The evaluation noted insufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon, or rectum with exposure to wood dust.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Wood/Wood Dust 1 Carcinogenic to humans.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens**

Wood/Wood Dust Known Human Carcinogen

**Acute Toxicity:** 99.988% of the mixture consists of ingredient(s) of unknown toxicity.

**Chronic Toxicity:** Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

**Specific Target Organ Toxicity, Single Exposure:** May cause respiratory irritation.

**Specific Target Organ Toxicity, Repeated Exposure:** May cause damage to organs (respiratory system) through prolonged or repeated exposure.

**Reproductive Toxicity:** No information available.

**Bioaccumulation:** No information available.

## SECTION 12 –ECOLOGICAL INFORMATION

**Ecotoxicity:** Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

**Mobility:** No information available.

**Persistence and Degradability:** No information available.

**Bioaccumulative Potential:** No information available.

**Other Adverse Effects:** No adverse environmental effects are expected.

## SECTION 13 –DISPOSAL CONSIDERATIONS

**Waste Disposal Methods:** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging:** Do not re-use empty containers.

## SECTION 14 –TRANSPORT INFORMATION

**DOT:** Not regulated as dangerous goods.

**TDG:** Not regulated as dangerous goods.

**IMDG:** Not regulated as dangerous goods.

**IATA:** Not regulated as dangerous goods.

## SECTION 15 –REGULATORY INFORMATION

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**US Federal Regulations:** This product is considered a manufactured article and is exempt under OSHA Hazardous Communication Standard 29 CFR 1910.1200. Wood dust generated by further processing is considered hazardous and regulated under the Hazard Communication Standard 29 CFR 1910.1200.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not Regulated

**TSCA Toxic Substances Control**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302)**

Not regulated.

**SARA Superfund Amendments and Reauthorization Act of 1986**

**Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)**

Not Listed

**Section 311/312 Hazardous Chemical (40 CFR 370)**

**Classified Hazard:** Combustible Dust

**Categories**

|                         |     |   |
|-------------------------|-----|---|
| Acute Health Hazard     | No  |   |
| Chronic Health Hazard   | Yes | Carcinogenicity, Specific target organ toxicity (repeated exposure) |
| Fire Hazard             | Yes |   |
| Pressure Release Hazard | No  |   |
| Reactivity Hazard       | No  |   |

**Section 313 TRI Reporting (40 CFR 372)**

This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**Other Federal Regulations**

**Clean Water Act (40 CFR 122.21, 40 CFR 122.42)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act.

**US State Regulations**

**California Proposition 65**



**WARNING:** Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust, or use a dust mask or other safeguards for personal protection. For more information go to: [www.P65Warnings.ca.gov/wood](http://www.P65Warnings.ca.gov/wood)

**California Proposition 65 - CRT: Listed date/Carcinogenic substance**

WOOD/WOOD DUST (CAS Not Assigned) Listed: December 18, 2009

**US State Right-to-KNow Regulations**

| Chemical Name                                 | NJ | MA | PA | IL | RI |
|---|----|----|----|----|----|
| Wood Dust                                     |    |    | X  |    | X  |
| Linseed Oil                                   |    |    | X  |    | X  |
| Solvent Naphtha (petroleum), Medium Aliphatic | X  |    |    |    |    |
| Zirconium Ethyl Hexoate                       |    |    |    |    | X  |
| Cobalt Neodecanoate                           |    |    | X  | X  |    |

**International Inventories**

| Country/Region | Inventory Name                      | Status                     |
|----------------|-------------------------------------|----------------------------|
| Canada         | Domestic Substances List (DSL)      | Complies with requirements |
| U.S. and P.R.  | Toxic Substances Control Act (TCSA) | Complies with requirements |

**SECTION 16 –OTHER INFORMATION**

Issuing Date: May 1, 2020

Expiration Date: May, 2023

10/27/2015 (original)

6/2016 (revision GHS)

5/2020 (revision State Regulations)

Further information

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

HMIS® Ratings Health: 1\*  
Flammability: 1  
Physical hazard: 0

NFPA Ratings Health: 1  
Flammability: 1  
Instability: 0

\*indicates chronic health hazard

#### Disclaimer

The condition or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product.