



## LEED 2009 Rating Systems

Division: 12 32 16 Manufactured Plastic-Laminate-Clad Casework

Modular Casework Assembly (percentage by weight)

Thermally-fused Laminate (TFL):	78%
Particleboard:	17%
Laminate:	< 0.5%
Other:	< 5%

(hinges, slides, pulls, etc.)

Product value (\$) = Total product cost (\$) x (%) product component by weight x (%) meeting sustainable criteria

### MRC4: Recycled Content:

ARAUCO Flakeboard TFL makes-up approximately 78% (by weight) of HAMILTON product, and contains 82% wood solids and 18% resins and other additives.

<b>Post-consumer recycled content:</b>	<b>0%</b>
<b>Pre-consumer recycled content:</b>	<b>89.9%</b>

ARAUCO Flakeboard UltraPine particleboard makes-up approximately 17% (by weight) of HAMILTON product, and contains 82% wood solids and 18% resins and other additives.

<b>Post-consumer recycled content:</b>	<b>0%</b>
<b>Pre-consumer recycled content:</b>	<b>89.9%</b>

See documentation attached

### MRC5: Regional Materials:

ARAUCO Flakeboard products make-up approximately 95% (by weight) of HAMILTON product, and are extracted and manufactured in **Moncure, NC 27559**.

Manufacture and final assembly for all HAMILTON products is **Fairfield, OH 45014**.

See documentation attached

### MRC7: Certified Wood:

ARAUCO Flakeboard products contain 100% recycled and recovered wood.

<b>% New Wood:</b>	<b>0%</b>
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Hamilton Casework Solutions is Chain of Custody certified, products can be ordered to meet credit requirements.



**IEQc4.1: Low-Emitting Materials – Adhesives and Sealants:**

HAMILTON products do not require adhesives or sealants to be applied on-site.

**IEQc4.4: Low-Emitting Materials – Composite Wood and Agrifiber Products:**

HAMILTON products are included in Division 12 32 16 Manufactured Plastic-Laminate-Clad Casework, many products classified as FF&E are not considered base building elements and are not considered in this credit. Check with your LEED consultant for project specific requirements.

HAMILTON products can be ordered to comply with NAUF and ULEF requirements.

Shop-applied laminating adhesives contain No Added Urea Formaldehyde.

See documentation attached

**IEQc4.5: Low-Emitting Materials – Systems Furniture and Seating (LEED CI only):**

All HAMILTON products are Greenguard Certified.

See documentation attached

## Recycled Content Declaration

Flakeboard composite panels are manufactured with recycled and/or recovered wood fiber and may help achieve credit in several programs where use of materials containing recycled content is recognized, such as the U.S. and Canadian Green Building Council (USGBC, CaGBC) Leadership in Energy & Environmental Design (LEED), ANSI/BIFMA e3-2011 Furniture Sustainability Standard, KCMA's Environmental Stewardship Program (ESP), Scientific Certification Systems (SCS), and MDBC Cradle to Cradle® Certification Program.

The table below details wood related raw material information by mill for Flakeboard composite panel products. Note that numbers provided are calculated mill averages (percent by weight) for all products made at that facility.

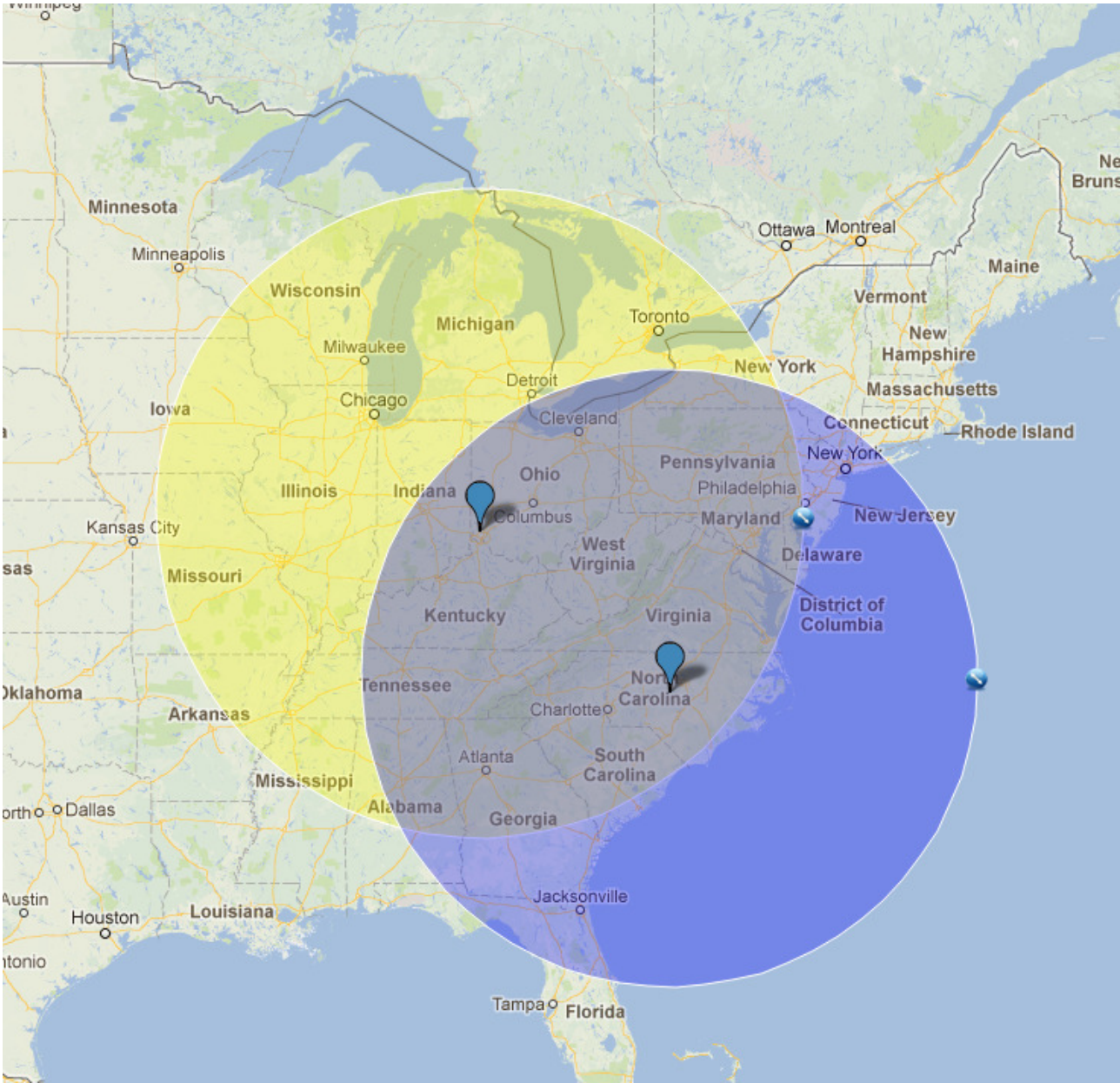
Mill	% Wood Solids	% Other Components - Resin Solids, Other Additives	% Pre-consumer (Post-industrial) Recycle <sup>1</sup> in Raw Material	% Post-consumer Recycle <sup>1</sup> in Raw Material	% Recovered <sup>2</sup> in Raw Material	% Recycled/Recovered in Raw Material
Sault Ste. Marie, ONT (MDF)	87%	13%	99.47%	0%	0.53%	100%
St. Stephen, NB (Fibrex®, PB)	87%	13%	46.70%	0%	53.30%	100%
Carolina Particleboard (CPB), Bennettsville SC (PB)	85%	15%	91.47%	3.93%	4.60%	100%
Bennettsville MDF, Bennettsville, SC (MDF)	85%	15%	91.86%	2.93%	5.21%	100%
Malvem MDF, Malvem AR (MDF)	85%	15%	88.10%	0%	11.90%	100%
Duraflake Particleboard, Albany, OR (PB)	87%	13%	99.28%	0.72%	0%	100%
Eugene MDF, Eugene, OR (MDF)	84%	16%	100.00%	0%	0%	100%
<b>Moncure, NC, (PB, MDF)</b>	<b>82%</b>	<b>18%</b>	<b>89.90%</b>	<b>0%</b>	10.10%	<b>100%</b>

1. Recycled content meets definitions prescribed in International Organization of Standards document, ISO 14021 — Environmental labels and declarations — Self-declared environmental claims (Type II environmental labeling) as well as definitions prescribed in the Composite Panel Association's Eco-certified Composite (ECC) Sustainability Standard CPA 4-11
2. Recovered content meets definitions prescribed in the Composite Panel Association's Eco-certified Composite (ECC) Sustainability Standard CPA 4-11

### 500 Mile Radius

Extraction/harvest/manufacture location: Moncure, NC (blue)

Final assembly/manufacture location: Fairfield, OH (yellow)



## Raw Materials Sourcing Distances

Flakeboard composite panels are manufactured with wood fiber that has been sourced locally and may help achieve credit in several programs where use of locally sourced materials is recognized, such as the U.S. and Canadian Green Building Council (USGBC, CaGBC) Leadership in Energy & Environmental Design (LEED).

The table below details wood supply distances of extraction by mill for Flakeboard composite panel products. Note that numbers provided are calculated mill averages (percent by weight) for all products made at that facility.

Extraction Distance	Percent of Wood Supply Within Extraction Distance, by Mill							
	Sault Ste. Marie, ONT (MDF) 657 Base Line Sault Ste. Marie, Ontario Canada P6A 5K6	St. Stephen, NB (Fibrex®, PB) 151 Church Street St. Stephen, New Brunswick Canada E3L 3A6	Carolina Particleboard (CPB), Bennettsville SC (PB) 582 Willamette Rd. Hwy 912 Bennettsville, SC USA 29512	Bennettsville MDF, Bennettsville, SC (MDF) 579 Willamette Rd. Hwy 912 Bennettsville, SC USA 29512	Malvern MDF, Malvern AR (MDF) 1275 Willamette Rd. Malvern, AR USA 72104	Duraflake Particleboard, Albany, OR (PB) 2550 Old Salem Rd. NE Albany, OR USA 97321	Eugene MDF, Eugene, OR (MDF) 50 N. Danebo Ave. Eugene, OR USA 97402	Moncure, NC (PB,MDF) 985 Corinth Road Moncure, NC USA 27559
Within 50 miles (81 kms)	8.95%	18.20%	33.49%	41.65%	64.90%	39.05%	90.31%	49.45%
Within 150 miles (241 kms)	50.76%	88.90%	99.41%	96.21%	98.20%	74.87%	90.89%	99.95%
Within 250 miles (402 kms)	84.58%	100.00%	100.00%	100.00%	100.00%	100.00%	100%	100%
Within 350 miles (563 kms)	100%	-	-	-	-	-	-	-
Within 450 miles (724 kms)	-	-	-	-	-	-	-	-

# MSDS *Material Safety Data Sheet*

Wilsonart LLC

MSDS Number: 19025  
Page 1 of 5

Wilsonart® 900 Series Adhesive

Revision Date: 01/30/13  
Revision No: 6

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Common Name:** Wilsonart® 900 Series Adhesive

**Includes:** 950 Adhesive  
951 Adhesive  
980 Adhesive  
981 Adhesive

IEQc4.4: Shop-applied laminating adhesive

**Manufacturer:** WILSONART LLC  
P. O. BOX 6110 – 2400 WILSON PLACE  
TEMPLE, TX 76503  
INFORMATION PHONE: 800-433-3222 (USA)

**Trade Name:** WA 900 Series Adhesive

**Material Uses:** Adhesive for laminate

**In Case of Emergency Contact CHEMTREC:** 800-424-9300 (USA)  
703-527-3887 (INTERNATIONAL)

## 2 HAZARDS IDENTIFICATION

**Route of Entry:** Skin, eyes, respiratory tract, ingestion.

**Target Organs:** Lung, liver, kidney, central nervous system (CNS), and peripheral nervous system.

**Inhalation:** Breathing vapors may cause dizziness, irregular heartbeat, narcosis, nausea, asphyxiation, and anesthetic effects. Product components are a severe irritation to the respiratory tract. Severe overexposure can result in death. May aggravate pre-existing respiratory conditions

**Skin Contact:** May cause skin irritation. May aggravate pre-existing skin conditions. Solvent components may act as a permeator (absorbed through skin). Long-term exposure may cause defatting of the skin and dermatitis.

**Eye Contact:** Will cause eye irritation.

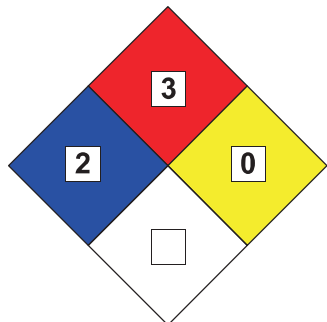
**Ingestion:** Not an expected route of entry. If ingested it may cause irritation to the gastro-intestinal tract.

**DANGER!** EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF INHALED OR SWALLOWED. MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. USE ONLY WITH ADEQUATE VENTILATION.

HMIS (United States):	
HEALTH	2*
FLAMMABILITY	3
REACTIVITY	0
PPE	C

\* See Section 11

NFPA (United States):



WHMIS (Canada): B2, D2B



## 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS #	% by Weight
Acetone	67-64-1	20 – 40



Light Hydrotreated Distillate	68410-97-9	30 – 50
n-Pentane	109-66-0	23 max
Toluene	108-88-3	7 – 13
Cyclohexane	110-82-7	7.5 max
n-Hexane	110-54-3	1.5 max

## 4

**FIRST AID MEASURES**

**Inhalation:** Remove patient to fresh air. If patient is having difficulty breathing, seek immediate medical attention. If not breathing, clear airway and start artificial respiration. Seek immediate medical attention. Sudden death due to ventricular fibrillation has been reported in chronic solvent abusers. Overexposure may cause cardiopulmonary failure, CNS depression, peripheral neuropathy, and metabolic acidosis. Treat supportively.

**Skin Contact:** Remove contaminated clothing. Wash affected areas with soap and water. If irritation develops, seek medical attention.

**Eye Contact:** Flush eyes with water for 15 minutes. Remove contact lenses prior to water flush. Seek medical attention.

**Ingestion:** DO NOT induce vomiting. Seek immediate medical attention. DO NOT give anything by mouth to an unconscious person.

## 5

**FIRE FIGHTING MEASURES**

**Flash Point:** WA 950/951: 14.7°F (-9.6°C) WA 980/981: 5.0°F (-15.°C)

**Flash Point Method:** Closed Cup.

**Autoignition Temp.:** 437°F (225°C) for lowest known component – n-Hexane.

**Burning Rate:** Not Available.

**LEL:** 2.0%

**UEL:** 13.0%

**Flammability Classification:** Class 1B Flammable Liquid

**Firefighting Equipment:** Use self-contained breathing apparatus (SCBA) with a full-face piece and pressure demand or other positive-pressure mode.

**Risk of Explosion Due to Mechanical Impact:** Not Available.

**Risk of Explosion Due to Static Discharge:** Static discharge may serve as an ignition source for this product.

**Hazardous Products of Combustion:** Carbon Oxides (CO and CO<sub>2</sub>), Aldehydes, and various Hydrocarbons.

**Special Remarks:** Extremely flammable liquid and vapor. Vapor may cause flash fires. Vapors are heavier than air and can travel long distances to ignition sources. Highly flammable in the presence of sparks or open flames. Flammable in the presence of heat and/or oxidizing materials. All electrical equipment in the area must be rated for flammable liquids. In case of fire, use dry chemical, CO<sub>2</sub>, or alcohol foam. Avoid water. Cool containing vessels with water jet to prevent pressure build-up, autoignition, or explosion.

## 6

**ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Wear appropriate PPE. Extremely flammable liquid and vapor. Remove all sources of ignition. Make sure area is well ventilated. Spilled solvent may be slippery.

**Environmental Precautions:** Keep out of sewers and drains.

**Clean-Up Methods:** Dike and contain spill. Absorb spilled product with vermiculite, dry sand, or earth. Place in a suitable non-leaking container and tightly seal for disposal.

## 7

**HANDLING AND STORAGE**

**Handling Precautions:** Wear appropriate PPE. Keep away from heat, sparks, and flames. If used indoors, make sure to provide adequate ventilation to prevent vapor build-up. Bond and ground containers when handling.

**Storage Requirements:** Store in a cool, dry, well-ventilated area. Ensure product is kept away from all sources of heat, sparks and open flame. Prohibit smoking in the storage area. Do not store with acids or oxidizers. Electrical service in storage area must be rated for flammable liquids.

## 8

**EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective threshold limit value. Ensure that a working eyewash and safety shower are in the work area.

**Protective Equipment:** Wear splash goggles or safety glasses with side shields, synthetic apron, and neoprene or rubber gloves. In case of insufficient ventilation, wear an approved (NIOSH) respirator with organic vapor cartridge and dust/mist pre-filter.

**Exposure Guidelines / Other:**

Product Name	Exposure Limits
Acetone (67-64-1):	OSHA PEL: TWA 1000 ppm ACGIH TLV: TWA 500 ppm STEL 750 ppm
Cyclohexane (110-82-7):	OSHA PEL: TWA 300 ppm ACGIH TLV: TWA 100 ppm
n-Hexane (110-54-3):	OSHA PEL: TWA 500 ppm ACGIH TLV: TWA 50 ppm
n-Pentane (109-66-0):	OSHA PEL: TWA 1000 ppm ACGIH TLV: TWA 600 ppm
Toluene (108-88-3):	OSHA PEL: TWA 200 ppm Ceiling 300 ppm 10 minute max peak 500 ppm ACGIH TLV: TWA 20 ppm

Consult local authorities and local regulations for exposure limits.

## 9

**PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Red (950/980) or Brown/Yellow (951/981) Liquid.

**Physical State:** Liquid.

**Odor:** Strong solvent.

**Boiling Point:** 132°F (56°C) for Acetone.

**Freezing / Melting Point:** May begin to solidify at 43.7°F (6.5°C) for Cyclohexane.

**Molecular Weight:** Not Applicable.

**Percent Volatile:** 82.5% (950/951), 82.0% (980/981).

**pH:** Not Applicable.

**Solubility:** Not Soluble in Water.

**Specific Gravity / Density:** 6.6 lbs/gal.

**Viscosity:** 150 – 200 cP.

**Vapor Density:** Highest component is 3.14 for Toluene (Air = 1). Weighted average is 2.65 (Air = 1).

**Vapor Pressure:** 268 mm Hg @ 20°C (calculated).

**VOC:** 606 g/L (950/951) or 602 g/L (980/981).

## 10

**STABILITY AND REACTIVITY**

**Stability:** Product is stable as supplied.

**Conditions to Avoid:** All ignition sources and elevated temperatures.

**Materials to Avoid (Incompatibility):** Strong acids, and alkalies, oxidizing agents, reducing agents, copper, and copper alloys.

**Hazardous Decomposition Products:** Carbon Oxides (CO and CO<sub>2</sub>) and various hydrocarbons.

**Hazardous Polymerization:** Will not polymerize.

## 11

**TOXICOLOGICAL INFORMATION****Acute Toxicity to Animals:**

Acetone (67-64-1):	Inhalation 4 hour LC50 = 30000 ppm (rat). Inhalation 4 hour LC50 = 18600 ppm (mouse). Oral LD50 = 5800 mg/kg (rat).
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Cyclohexane (110-82-7):	Dermal LD50 > 16000 mg/kg (rabbit). Oral LD50 = 12850 mg/kg (rat).
n-Hexane (110-54-3):	Dermal LD50 > 18000 mg/kg (rabbit). Inhalation 4 hour LC50 = 38500 ppm (rat) Oral LD50 = 28700 mg/kg (rat)
n-Pentane (109-66-0):	Inhalation 4 hour LC50 > 6106 ppm (rat) Oral LD50 > 2000 mg/kg (rat)
Toluene (108-88-3):	Inhalation 4 hour LC50 = 7585 ppm (rat) Inhalation 4 hour LC50 = 7100 ppm (mouse) Oral LD50 = 5580 mg/kg (male rat) Dermal LD50 = 12125 mg/kg (rabbit)

**Chronic Toxicity to Animals:** No additional information.

**Acute Toxicity to Humans:** No additional information.

**Chronic Effects on Humans:** Classified PROVEN for human (n-Hexane). n-Hexane has been shown to cause neuropathy (numbness of arms and legs) in long-term exposures.

**Carcinogenic Effects:** Not classifiable for humans or animals.

**Mutagenic Effects:** Classified NONE for human.

**Teratogenic Effects:** Classified PROVEN for human (Toluene).

**Developmental Toxicity:** Classified PROVEN for human (Toluene). Causes damage to kidneys, liver, and central nervous system. Components of this product have been reported to cause spontaneous abortion in women that intentionally concentrated and inhaled vapors.

## 12 ECOLOGICAL INFORMATION

**Ecotoxicity:** Product may kill grasses and small plants. Non-toxic to fish. Moderately toxic to amphibians by preventing dermal respiration. May cause gastrointestinal distress to birds and mammals by ingestion.

**BOD5 and COD:** Not Available.

**Biodegradable / OECD:** Not Available.

**Toxicity of the Products of Biodegradation:** Not Available.

**Special Remarks on the Products of Biodegradation:** Not Available.

## 13 DISPOSAL CONSIDERATIONS

Spilled, contaminated, or waste material should be put into a suitable container and handled according to Federal, State, and local regulations. Contact a qualified waste management company for assistance. Do not incinerate, weld, cut, or braze container. Residual vapors may be explosive. Empty containers should be disposed of properly.

Dispose of in accordance with Federal, State, and local regulations.

## 14 TRANSPORT INFORMATION

**Proper Shipping Name:** Adhesives (DOT), Flammable Liquid.

**DOT Classification:** UN 1133, Adhesives, Flammable Liquid, Hazard Class 3, Packing Group II.

**Special Provision for Transport:** 5 Liters (1.3 gallons) or less may use Limited Quantity exceptions (49CFR 172.102 & 49 CFR 173.150).

**ADR/RID Classification:** Class 3; Flammable Liquid.

**ICAO/IATA Classification:** Class 3; Flammable Liquid.

**IMO/IMDG Classification:** Class 3; Flammable Liquid.

**Marine Pollutant:** No.

## 15 REGULATORY INFORMATION

### U.S. Federal Regulations

Chemical (& CAS Number)	SARA 302 (EHS)TPQ	SARA 304 (EHS)Rq	SARA 313 <i>de minimis</i>	CERCLA Rq	CAA 112(r) TQ	RCRA Code
Acetone (67-64-1)				5000		U002

Cyclohexane (110-82-7)			1	1000		U056
n-Hexane (110-54-3)			1	5000		
n-Pentane (109-66-0)					10000	
Toluene (108-88-3)			1	1000		U220

All quantities in pounds

### State Regulations

Chemical (& CAS Number)	CA Prop 65	MA RTK	MN RTK	NJ RTK	PA RTK	RI RTK
Acetone (67-64-1)		X	X	X	X	X
Cyclohexane (110-82-7)		X	X	X	X	X
n-Hexane (110-54-3)		X	X	X	X	X
n-Pentane (109-66-0)		X	X	X	X	X
Toluene (108-88-3)*	X	X	X	X	X	X

**\*WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

### International Regulations

**DSL (Canada):** The chemicals in this product are listed.

**EINECS:** The chemicals in this product are listed.

**WHMIS:** B2, D2B.

## 16 OTHER INFORMATION

**Prepared by:** Environmental, Health, and Safety Department, Wilsonart LLC.

Telephone: 254-207-7000 Internet: [www.wilsonart.com](http://www.wilsonart.com)

### Notice to Reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named manufacturer nor any of its subsidiaries assumes any liability whatsoever for accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

END OF MSDS DOCUMENT

About Wilsonart SMART  
Wilsonart Adhesives History  
 Contact Us

Products  
Contact Adhesives  
Polyvinyl Acetate (PVA) Adhesive  
Solvents and Cleaners  
Specialty Products  
MSDS  
Quick Reference Guide  
Tech Data/Specs  
Certified Product Data Sheet  
FAQs  
Brochure  
Spec Guide

GREENGUARD® Certified Products  
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Environmental Information  
OTC Compliant Products  
SCAQMD Compliant Products

Find a Wilsonart Distributor in your area within the US or Canada  
Search by ZIP or POSTAL CODE

Need help finding the right adhesive for your project?

Find the recommended Adhesive for your project

## LEED® Rating System

### What is LEED?



The Leadership in Energy and Environmental Design (LEED) Green Building Rating System™ is a third party certification program for the design, construction and operation of high performance green buildings. LEED certification provides verification that a building is environmentally responsible, profitable and a healthy place to live and work. LEED does not promote or endorse products or companies, but products such as Wilsonart Adhesives can contribute to multiple points which can help your project obtain LEED certification.

[Click here to learn more about LEED.](#)

- **EQ Credit 4.1:** must be less than the current VOC content limits of South Coast Air Quality Management District (SCAQMD) Rule #1168, and all sealants used as fillers must meet or exceed the requirements of the Bay Area Air Quality Management District Regulation 8, Rule 51.

### Wilsonart Adhesives Which Meet This Criteria:

#### Compliant CONTACT Products

- Lokweld® 700A Premium Aerosol Contact Adhesive
- Lokweld® 740A Fast-Drying Aerosol Contact Adhesive
- Wilsonart® 1730/1731 California Compliant Bulk Contact Adhesive
- Wilsonart® 730/731 Low VOC Canister Spray Adhesive
- Wilsonart® H2O Water-based Contact Adhesive

#### Compliant PVA Products

- Lokweld® Melamine Glue
- Lokweld® Type II Glue
- Lokweld® White Glue (WA 10)
- Lokweld® Wood Glue (WA 30)
- Wilsonart® 10 PVA Assembly and Cold Press Adhesive
- Wilsonart® 20 PVA Yellow Assembly and Cold Press Adhesive
- Wilsonart® 30 PVA Yellow Woodworking Adhesive
- Wilsonart® 3000 Postforming and Pinch Roller PVA Adhesive
- Wilsonart® 3001 Postforming and Pinch PVA Adhesive
- Wilsonart® 3004 Postforming and Pinch Roller PVA Adhesive
- Wilsonart® 3034 Postform Edge PVA Adhesive
- Wilsonart® 3035 Postform Edge PVA Adhesive
- Wilsonart® 3100 PVA Cold Press Adhesive
- Wilsonart® 3105 PVA Cold Press Adhesive
- Wilsonart® 3116 PVA Cold Press Adhesive
- Wilsonart® 3125 Water Resistant PVA Assembly & Hot or Cold Press Adhesive
- Wilsonart® 3131 PVA Hot or Cold Press Adhesive
- Wilsonart® 3132 PVA Hot or Cold Press Adhesive
- Wilsonart® 3140 Pinch Roller, Cold or Hot Press PVA Adhesive
- Wilsonart® 3310 PVA Adhesive for Non-Copper and Non-Ferrous Metal Bonding
- Wilsonart® 3330 Roller/Spray Adhesive for Hard-to-Bond Surfaces
- Wilsonart® M - Melamine Adhesive
- Wilsonart® Type II PVA Water-Resistant Assembly and Cold Press Adhesive

- **EQ Credit 4.4:** Composite Woods: Composite wood and agrifiber products must contain no added urea-formaldehyde resins. Laminating adhesives used to fabricate on-site and shop-applied composite wood and agrifiber assemblies shall contain no added urea-formaldehyde resins.

**Wilsonart Adhesives contain no added urea-formaldehyde resins. All Wilsonart Adhesive meet this criteria.**



- **EQ Credit 3.2:**  
Before Occupancy: Develop and implement an Indoor Air Quality Management Plan for the pre-occupancy phase as follows: Option 2 - Air Testing: Conduct baseline IAQ testing, after construction ends and prior to occupancy, using testing protocols consistent with the United States Environmental Protection Agency Compendium of Methods for the Determination of Air Pollutants in Indoor Air and as additionally detailed in the Reference Guide.

**Wilsonart Adhesives Which Meet This Criteria:**

**Compliant CONTACT Products**

- Lokweld® 700A Premium Aerosol Contact Adhesive
- Lokweld® 740A Fast-Drying Aerosol Contact Adhesive
- Wilsonart® 1700/1701 Low VOC Contact Adhesive
- Wilsonart® 1730/1731 California Compliant Bulk Contact Adhesive
- Wilsonart® 730/731 Low VOC Canister Spray Adhesive
- Wilsonart® H2O Water-based Contact Adhesive

**Compliant PVA Products**

- Lokweld® Type II Glue
- Lokweld® White Glue (WA 10)
- Lokweld® Wood Glue (WA 30)
- Wilsonart® 10 PVA Assembly and Cold Press Adhesive
- Wilsonart® 20 PVA Yellow Assembly and Cold Press Adhesive
- Wilsonart® 30 PVA Yellow Woodworking Adhesive
- Wilsonart® 3000 Postforming and Pinch Roller PVA Adhesive
- Wilsonart® 3001 Postforming and Pinch PVA Adhesive
- Wilsonart® 3004 Postforming and Pinch Roller PVA Adhesive
- Wilsonart® 3034 Postform Edge PVA Adhesive
- Wilsonart® 3035 Postform Edge PVA Adhesive
- Wilsonart® 3100 PVA Cold Press Adhesive
- Wilsonart® 3105 PVA Cold Press Adhesive
- Wilsonart® 3116 PVA Cold Press Adhesive
- Wilsonart® 3125 Water Resistant PVA Assembly & Hot or Cold Press Adhesive
- Wilsonart® 3131 PVA Hot or Cold Press Adhesive
- Wilsonart® 3132 PVA Hot or Cold Press Adhesive
- Wilsonart® Type II PVA Water-Resistant Assembly and Cold Press Adhesive



# CERTIFICATE OF COMPLIANCE



## Hamilton Casework Solutions modularCaseworks

Restrictions:

UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

4065-420

Certificate Number

10/24/2008 - 07/23/2020

Certificate Period

Certified

Status

Commercial furniture and furnishings are tested in accordance with ANSI/BIFMA M7.1-2011(R2016) and determined to comply with ANSI/BIFMA X7.1-2011(R2016) and ANSI/BIFMA e3-2014e Credit 7.6.1, 7.6.2, and 7.6.3 in a Private Office Environment. Products also determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2017 in the office environment.

Product tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818. Section 7.1 and 7.2.



*UL investigated representative samples of the identified Product(s) to the identified Standard(s) or other requirements in accordance with the agreements and any applicable program service terms in place between UL and the Certificate Holder (collectively "Agreement"). The Certificate Holder is authorized to use the UL Mark for the identified Product(s) manufactured at the production site(s) covered by the UL Test Report, in accordance with the terms of the Agreement. This Certificate is valid for the identified dates unless there is non-compliance with the Agreement.*

## GREENGUARD Gold Certification Criteria for Furniture and Mattresses

Criteria	CAS Number	Maximum Allowable Predicted Concentration	Units
TVOC <sup>(A)</sup>	-	0.22	mg/m <sup>3</sup>
Formaldehyde	50-00-0	9 (7.3 ppb)	µg/m <sup>3</sup>
Total Aldehydes <sup>(B)</sup>	-	0.043	ppm
4-Phenylcyclohexene	4994-16-5	6.5	µg/m <sup>3</sup>
1-Methyl-2-pyrrolidinone <sup>(C)</sup>	872-50-4	160	µg/m <sup>3</sup>
Individual VOCs <sup>(D)</sup>	-	1/2 CREL or 1/100th TLV	-

- (A) Defined to be the total response of measured VOCs falling within the C<sub>6</sub> – C<sub>16</sub> range, with responses calibrated to a toluene surrogate.
- (B) The sum of all measured normal aldehydes from formaldehyde through nonanal, plus benzaldehyde, individually calibrated to a compound specific standard. Heptanal through nonanal are measured via TD/GC/MS analysis and the remaining aldehydes are measured using HPLC/UV analysis.
- (C) Based on the CA Prop 65 Maximum Allowable Dose Level for inhalation of 3,200 µg/day and an inhalation rate of 20 m<sup>3</sup>/day.
- (D) Allowable levels for chemicals not listed are derived from the lower of 1/2 the California Office of Environmental Health Hazard Assessment (OEHHA) Chronic Reference Exposure Level (CREL) as required per the CDPH/EHLB/Standard Method v1.2 and BIFMA level credit 7.6.2 and 1/100th of the Threshold Limit Value (TLV) industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, and Cincinnati, OH 45211-4438).

