



Material Safety Data Sheet

Arclin Surfaces, Inc.

HAYWARD, WI OFFICE and PLANT 15859 Dyno Drive, Hayward, WI 54843
TACOMA, WA OFFICE and PLANT 2144 Milwaukee Way, Tacoma, WA 98421
PORTLAND, OR OFFICE and PLANT 2301 No Columbia Blvd, Portland, OR 97217

Phone (715) 634-5057 Fax (715) 634-2361
Phone (253) 572-5600 Fax (253) 627-2896
Phone (503) 289-1111 Fax (503) 978-2607

EMERGENCY NUMBERS CHEMTREC 800-424-9300
Outside US: 703-527-3887

Date Issued: March 19, 2007
Revised: August 24, 2011

Section I - Material Identification

Product Name: Standard and Pigmented DMO **Product Code:** All Standard and Pigmented DMO Products

Product Description: Decorative Melamine Overlay Impregnated Paper

Chemical Name: Resin Impregnated Paper **IUPAC:** N/A **CAS#:** N/A **UN#:** Not Regulated

Section II - Hazardous Ingredients

Ingredients	CAS #	Weight %	Exposure Limits
Formaldehyde	50-00-0	Below Reportable Threshold	0.3 ppm ACGIH Ceiling 0.75 ppm OSHA PEL-TWA
Methanol	67-56-1	Below Reportable Threshold	200 ppm ACGIH TLV and OSHA PEL

* 29 CFR Part 1910.1200(g) (2) (i) (C) (1), of the Occupational Safety and Health Administration (OSHA) Hazardous Communication Standard

H.M.I.S. RATINGS HEALTH - 1 FLAMMABILITY - 0 REACTIVITY - 0

Section III - Health Hazards

Effects of Over Exposure:

Contact with skin may cause irritation or rash. Eye contact may cause slight irritation or redness.
Heated vapors may cause irritation of the respiratory tract.

Primary Route(s) of Entry:

Inhalation of dust or fumes.

Formaldehyde is classified as an IARC Group I human carcinogen, a known human carcinogen by NTP, and a potential human carcinogen by OSHA.

Section IV - Emergency and First Aid Procedures

Skin Contact: Wash with soap and water at once.

Eye Contact: Flush with water for 15 minutes and call a physician if irritation persists.

Inhalation: Remove to fresh air.

Ingestion: Not applicable.

In all cases if irritation persists, obtain qualified medical advice.

Section V - Fire and Explosion Hazard Data

Flashpoint: Not applicable **Auto-ignition Temperature:** 410 degrees C. / 770 degrees F.
Extinguishing Media: Water spray, Carbon Dioxide foam or Dry Chemical, as determined by surrounding fire
Special Fire Fighting Procedures: Self-contained breathing apparatus is required.
Hazardous decomposition products may include formaldehyde and oxides of carbon, nitrogen, sodium and potassium.
Unusual Fire and Explosion Hazards: None.

Section VI - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:

Collect material and place in a closed container.

Proper PPE (personal protective equipment) should be worn per Section VIII of this MSDS.

Waste disposal method:

At this time, this material would not be considered a hazardous waste as defined under the federal RCRA regulations (40 CFR 261). However, caution should be taken as these regulations can change and state and local regulations may vary to reclassify this waste. Material should always be disposed of in accordance with federal, state, and local regulations.

For further information, contact your state or local solid waste disposal agency.

Section VII - Handling and Storage

Precautions to be taken in Handling and Storing:

Store in a cool, dry and vented space with packaging left intact until use.

Other precautions: Consult the product bulletin prior to using this product.

Section VIII - Special Protection Information

Respiratory Protection: Should be worn to prevent breathing dust or heated fumes.
Ventilation: Local exhaust and general ventilation recommended.
Protective Gloves: Suitable protective gloves should be worn to protect against skin contact and to prevent paper cuts.
Eye Protection: Safety glasses are recommended.
Other Protective Equipment: As required to prevent prolonged or repeated skin contact.

Section IX - Physical Data

Appearance and Odor:	White, Colored, or Printed Light Weight Impregnated Paper		
Boiling Point:	Not Applicable		
Percent Moisture Content 2-10%			
Evaporation Rate:	Non-Volatile	Leachate Analysis (Wt%):	
Vapor Density:	Non-Volatile	Leachate Formaldehyde:	0.00011
Specific Gravity:	Not Applicable	Leachate Methanol:	NA

Section X - Reactivity Data

Stability: Stable **Conditions to Avoid:** Warm storage and ignition sources
Incompatibility: None known **Hazardous Polymerization:** Will not occur
Hazardous Decomposition Products may include formaldehyde, and oxides of carbon, nitrogen, sodium and potassium

Section XI - Toxicological Information

When heating the paper, it will give off small amounts of volatile chemicals, primarily formaldehyde.

Permissible Exposure Levels:

Formaldehyde: OSHA has established a 0.75 ppm PEL for formaldehyde as an 8 hour TWA and a 2 ppm 15-minute STEL (Short Term Exposure Limit). OSHA has also set a 0.5 ppm action level for formaldehyde (see OSHA regulation 21 CFR 1910.1048 for specific information regarding workplace requirements). ACGIH ceiling for formaldehyde is 0.3 ppm.

Carcinogenicity: Formaldehyde is classified as an IARC Group I human carcinogen, a known human carcinogen by NTP, and a potential human carcinogen by OSHA.

Section XII: Ecological Information

No Data Available

Section XIII: Final Disposition

Material should always be disposed of in accordance with federal, state and local regulations. See Section VI for further details.

Section XIV: Transport Information

This product is not regulated.

Section XV: Regulatory Information

This product contains no hazardous ingredients above reportable thresholds as designated in the reporting requirements of 'Section 312 and 313 of the Emergency Planning and Community Right to Know Act' of 1986 (40 CFR 370 and 372).

Section XVI: Other Information

DISCLAIMER: The information and recommendations contained herein are offered as a service to our customers but are not intended to relieve the user from its responsibility to investigate and understand other pertinent sources of information and to comply with all laws and procedures applicable to the safe handling and use of these materials. The information and recommendations provided herein are believed by Arclin Surfaces, Inc. to be accurate or obtained from sources believed to be reliable. However, Arclin Surfaces, Inc. makes no warranty concerning their accuracy and Arclin Surfaces, Inc. will not be liable for claims resulting to any party's use of or reliance on information or recommendations contained herein regardless of whether it is claimed that the information or recommendations are inaccurate, incomplete or otherwise misleading.

Particleboard, Laminated or coated Particleboard, Laminated or coated MDF

SECTION 1: Identification of the substance/mixture and of the supplier

Product name: Particleboard, Laminated or coated
Particleboard, Laminated or coated MDF

Manufacturer/Supplier Trade name: Ultrablend, Ultrablend Lite, Ultrablend Plus,
Ultrablend Premium, Duramine, Skyblend,
Redishef, Melagard

Manufacturer/Supplier Article number: Particleboard, Laminated or coated
Particleboard, Laminated or Coated MDF

Recommended uses of the product and restrictions on use: Construction, furniture, cabinetry

Product Description: A panel product manufactured from cellulosic fiber materials bonded together with a synthetic resin or other suitable binder, and which may contain additives.

Manufacturer Details:

Roseburg
P.O. Box 1088
Roseburg, Oregon 97470

Emergency telephone number:

Chemtrec: 1-800-424-9300

SECTION 2: Hazards identification

Classification of the substance or mixture:



Irritant



Health hazard

May cause respiratory irritation.
May cause damage to organs.
Causes skin irritation.
Causes eye irritation.
May cause eye irritation.

Signal word: Warning

Hazard statements:

Precautionary statements:

If medical advice is needed, have product container or label at hand.
Do not eat, drink or smoke when using this product.
Do not breathe dust/fume/gas/mist/vapors/spray.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
If exposed or concerned: Get medical advice/attention.
Store in a well ventilated place.

Combustible Dust Hazard:

May form combustible dust concentrations in air (during processing).

Particleboard, Laminated or coated Particleboard, Laminated or coated MDF

Formaldehyde 50-00-0:

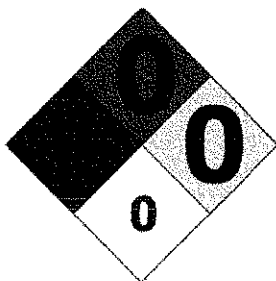
Under certain conditions, this product may release free formaldehyde vapors.

Other Non-GHS Classification:

WHMIS



NFPA/HMIS



NFPA SCALE (0-4)

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (0-4)

SECTION 3: Composition/information on ingredients

Ingredients:		
CAS N/A	Wood	80-90 %
CAS 108-78-1	Melamine Topcoat	< 5 %
CAS 57-13-6	Urea	0 – 10%
CAS 50-00-0	Formaldehyde	< 0.1 %
CAS N/A	Cured Resin Solids	5-15 %
Percentages are by weight		

SECTION 4: First aid measures

Description of first aid measures

After inhalation: Loosen clothing as necessary and position individual in a comfortable position. Get medical assistance if cough or other symptoms appear.

After skin contact: Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek medical advice if discomfort or irritation persists. Wood dust of certain species may elicit allergic contact dermatitis in sensitized individuals and can cause mechanical irritation. Wash affected areas with soap and water. Seek medical attention if rash, irritation or dermatitis persists.

After eye contact: Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes.

Particleboard, Laminated or coated Particleboard, Laminated or coated MDF

Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

After swallowing:**Most important symptoms and effects, both acute and delayed:**

Irritation, nausea, headache, shortness of breath.

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician. Physician should treat symptomatically.

SECTION 5: Firefighting measures**Extinguishing media**

Suitable extinguishing agents: Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition. Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents:

Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters:

Protective equipment: Use NIOSH-approved respiratory protection/breathing apparatus.

Additional information (precautions): Move product containers away from fire or keep cool with water spray as a protective measure, where feasible. Wood dust from sawing, sanding, or machining can be explosive in the presence of an ignition source depending on particle size and moisture content. Airborne concentrations of 40 grams per cubic meter are often used as the lower explosive limit (LEL) for wood dusts.

SECTION 6: Accidental release measures**Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Ensure adequate ventilation.

Environmental precautions:**Methods and material for containment and cleaning up:**

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). Collect solids in powder form using vacuum with (HEPA filter).

Reference to other sections:**SECTION 7: Handling and storage****Precautions for safe handling:**

Minimize dust generation and accumulation. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with eyes, skin, and clothing.

Conditions for safe storage, including any Incompatibilities:

Avoid storage near extreme heat, ignition sources or open flame.

SECTION 8: Exposure controls/personal protection

Particleboard, Laminated or coated Particleboard, Laminated or coated MDF



Control Parameters: N/A, Wood Solids, OSHA PEL 10 mg/m³ ; ACGIH TLVTWA 1 mg/m³
N/A, Cured Resin Solids, OSHA PEL PNOS - 10 mg/m³ ; ACGIH TLVTWA 5 mg/m³
108-78-1, Melamine, OSHA PEL 10 mg/m³ ; ACGIH TLVTWA 10 mg/m³
50-00-0, Formaldehyde, OSHA PEL, 0.75 ppm

Appropriate Engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. 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).

Respiratory protection: Not applicable for products in purchased form

Protection of skin: Cloth, canvas or leather gloves are recommended for protection against mechanical irritation or wood splinters

Eye protection: Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses or goggles are appropriate eye protection.

General hygienic measures: Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing.

SECTION 9: Physical and chemical properties

Appearance(physical state,color):	Solid	Explosion limit lower: Explosion limit upper:	Not determined Not determined
Odor:	Not Determined	Vapor pressure:	Not determined
Odor threshold:	Not determined	Vapor density:	Not determined
pH-value:	Not Determined	Relative density:	Not determined
Melting/Freezing point:	Not determined	Solubilities:	
Boiling point/Boiling range:	Not determined	Partition coefficient (n-octanol/water):	Not determined
Flash point (closed cup):	Not determined	Auto/Self-ignition temperature:	~ 400 – 500° F
Evaporation rate:	Not determined	Decomposition temperature:	Not determined
Flammability (solid,gaseous)	Not determined	Viscosity:	a. Kinematic: Not determined b. Dynamic: Not determined

Particleboard, Laminated or coated Particleboard, Laminated or coated MDF

Density: 0.40-0.80, variable depends on wood species and moisture

SECTION 10: Stability and reactivity

Reactivity: Nonreactive under normal conditions.
Chemical stability: Stable under normal conditions.
Possible hazardous reactions: None under normal processing.
Conditions to avoid: Product may ignite at temperatures in excess of 400 F (204 C).
Incompatible materials: Concentrated acids or bases will alter the product. Exposure to elevated temperatures or strong acids or bases will cause polymerization with evolution of formaldehyde, phenol and/or water.
Hazardous decomposition products: Thermal and/or thermal-oxidative decomposition can produce irritating toxic fumes and gases, including carbon monoxide, carbon dioxide, phenol, formaldehyde, sulfur oxides, nitrogen oxides, and hazardous particles.

SECTION 11: Toxicological information

Acute Toxicity: No additional information.	
Chronic Toxicity: No additional information.	
Corrosion Irritation: No additional information.	
Sensitization:	No additional information.
Single Target Organ (STOT):	No additional information.
Numerical Measures:	No additional information.
Carcinogenicity:	Wood Dust: Wood dust is listed by NTP known to be a Human Carcinogen (10th Report), IARC Monographs: Wood dust, Group 1 - IARC Group 1:
Mutagenicity:	No additional information.
Reproductive Toxicity:	No additional information.

SECTION 12: Ecological information

Eco toxicity
Ecological Information: No information available at this time. These wood products are not expected to pose an ecological hazard as a result of their intended use.
Persistence and degradability:
Bio accumulative potential:
Mobility in soil:
Other adverse effects:

SECTION 13: Disposal considerations

Waste disposal recommendations:
 Follow safe solid waste disposal guidelines in accordance with federal, state and local regulations. If disposed of or discarded in its purchased form, incineration is the preferred method. Dry land disposal is acceptable in most states.

SECTION 14: Transport information

Particleboard, Laminated or coated Particleboard, Laminated or coated MDF

UN-Number

Not Regulated.

UN proper shipping name

Not Regulated.

Transport hazard class(es)

Packing group: Not Regulated

Environmental hazard:

Transport in bulk:

Special precautions for user:

SECTION 15: Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

Fire

SARA Section 313 (Specific toxic chemical listings):

N/A Wood Dust

50-00-0 Formaldehyde

RCRA (hazardous waste code):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act): 50-

00-0 Formaldehyde

Proposition 65 (California):

Chemicals known to cause cancer:

N/A WoodDust

50-00-0 Formaldehyde

13463-67-7 Titanium dioxide

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Additional Information:

California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

Title 22 California Code of Regulations requires that a clear and reasonable warning be given before exposure to chemicals listed by the State of California as causing cancer or reproductive toxicity. Formaldehyde, wood dust and titanium dioxide are on California's list of chemicals known to the State to cause cancer.

Particleboard, Laminated or coated Particleboard, Laminated or coated MDF

In the State of California the following warning is required to be posted in the work areas where wood products are used:

Prop 65 WARNING:

Drilling, sawing, sanding or machining wood products generates wood dust and other substances known to the State of California to cause cancer. Avoid inhaling dust generated from wood products or use a dust mask or other safeguards for personal protection.

Canada**Canadian Domestic Substances List (DSL):**

50-00-0 Formaldehyde

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients are listed.

SECTION 16: Other information

Definition of Common Terms: ACGIH = American Conference of Governmental Industrial Hygienists C = Ceiling Limit CAS# = Chemical Abstracts System Number CARB = Consortium for Advanced Residential Buildings DOT =

U. S. Department of Transportation DSL = Domestic Substance List EC50 = Effective concentration that inhibits the endpoint to 50% of control population EPA = U.S. Environmental Protection Agency HMIS = Hazardous Materials Identification System IARC = International Agency for Research on Cancer LC50 = Concentration in air resulting in death to 50% of experimental animals LCLo = Lowest concentration in air resulting in death LD50 = Administered dose resulting in death to 50% of experimental animals LDLo = Lowest dose resulting in death LEL = Lower Explosive Limit NAP = Not Applicable NAV = Not Available NIOSH = National Institute for Occupational Safety and Health NFPA = National Fire Protection Association NPRI = Canadian National Pollution Release Inventory NTP = National Toxicology Program OSHA = Occupational Safety and Health Administration PEL = Permissible Exposure Limit RCRA = Resource Conservation and Recovery Act STEL = Short-Term Exposure Limit (15 minutes) STP = Standard Temperature and Pressure TCLo = Lowest concentration in air resulting in a toxic effect TDG = Canadian Transportation of Dangerous Goods TDLo = Lowest dose resulting in a toxic effect TLV = Threshold Limit Value TSCA = Toxic Substance Control Act TWA = Time-Weighted Average (8 hours) UEL = Upper Explosive Limit WHMIS Workplace Hazardous Materials Information System.

Roseburg Forest Products believes the information contained in this SDS to be accurate at the time of preparation and has been compiled using sources believed to be reliable. However, Roseburg Forest Products makes no warranty, either expressed or implied, concerning the accuracy or completeness of the information presented. It is the responsibility of the user to comply with local, state, and federal regulations concerning use of this product. It is the further responsibility of the buyer to research and understand safe methods of storing, handling and disposal of this product.

Note – All Roseburg composite panels meet CARB Air Toxic Control Measure (ATCM) requirements. SkyBlend panels are produced with Ultra Low Emitting Formaldehyde (ULEF) resin systems.

GHS Full Text Phrases:

Particleboard, Laminated or coated Particleboard, Laminated or coated MDF**Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
CFR: Code of Federal Regulations (USA)
SARA: Superfund Amendments and Reauthorization Act (USA)
RCRA: Resource Conservation and Recovery Act (USA)
TSCA: Toxic Substances Control Act (USA)
NPRI: National Pollutant Release Inventory (Canada)
DOT: US Department of Transportation

Effective date: 10.24.2014

Last updated: 04.20.2015