

**MATERIAL SAFETY DATA SHEET****James Hardie Building Products
26300 La Alameda, Suite 400
Mission Viejo, CA 92691****Telephone (General Information and Emergency): 1-800-942-7343 (1-800-9HARDIE)****Section 1. Chemical Products and Company Identification****Product Name/Trade Names:** HardiePlank® lap siding, , HardiePanel® vertical siding, HardieSoffit® panel, HardieSoffit® Beaded Porch Panel, HardieShingle® siding, HardieShingle® notched panels, HardieShingle® individual shingles, Hardie® Reveal™ Panel, 7/16" HardieTrim® boards*Note: This MSDS applies to all Generation 6, HZ5 and HZ10 products with above stated product names.***Other Names:** Exterior Fiber-Cement (Medium Density), Fiber-cement, Fiber-reinforced cement**Use:** The above products are used as external wall cladding.**Manufacturer:** James Hardie Building Products, 26300 La Alameda, Suite 400, Mission Viejo, CA 92691**Effective date:** January 1, 2013. Check to verify the latest version or translation availability.**NOTE:** As of the date of the preparation of this document, the information contained herein is believed to be accurate.**Section 2. Hazardous Ingredients/Identity Information**

Substance Name	CAS #	UN #	EINECS #	% (by weight)
Crystalline Silica (Quartz)	14808-60-7	Not a hazardous material for shipping purposes	238-878-4	30-45%
Calcium Silicate (Hydrate)	65997-15-1	Not a hazardous material for shipping purposes	266-043-4	35-65%
Calcium Carbonate	471-34-1	Not a hazardous material for shipping purposes	207-439-9	<30%
Calcium Aluminum Silicate (Hydrate)	N/A	Not a hazardous material for shipping purpose	N/A	<20%
Cellulose	9004-34-6	Not a hazardous material for shipping purposes	232-674-9	<15%
Carbon Black	1333-86-4	Not a hazardous material for shipping purposes	215-609-9	<1%

Coated products are coated with water-based acrylic paint or acrylic sealer.



Section 3. Hazards Identification

Emergency Overview: Not explosive, not a fire hazard

Primary Routes of Entry and Potential Health Effects:

Inhalation:

Acute effects - Dust may cause irritation of the nose, throat, and airways, resulting in coughing and sneezing. Certain susceptible individuals may experience wheezing (spasms of the bronchial airways) on inhaling dust during sanding or sawing operations.

Chronic Effects - Repeated and prolonged overexposures to crystalline silica can cause silicosis (scarring of the lung) and increases the risk of bronchitis, tuberculosis, lung cancer, renal disease, and scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels, and internal organs). Some studies suggest that cigarette smoking increases the risk of silicosis, bronchitis and lung cancer in persons also exposed to crystalline silica.

Acute silicosis - a sub-chronic disease associated with acute, massive silica exposure, is a rapidly progressive, incurable lung disease that is typically fatal. Symptoms include, but are not limited to, shortness of breath, cough, fever, weight loss and chest pain. Such exposure may cause pneumoconiosis and pulmonary fibrosis.

Ingestion:

Unlikely under normal conditions of use, but swallowing the dust from this product may result in irritation or damage to the mouth and gastrointestinal tract due to alkalinity of dust.

Eye:

Dust may irritate the eyes from mechanical abrasion causing watering and redness.

Skin:

Dust may cause irritation of the skin from friction but cannot be absorbed through intact skin.

Medical conditions generally aggravated by exposure: Pulmonary function may be reduced by inhalation of respirable crystalline silica and/or cellulose. If lung scarring occurs, such scarring could aggravate other lung conditions such as asthma, emphysema, pneumonia or restrictive lung diseases. Lung scarring from crystalline silica may also increase risks to pulmonary tuberculosis.

Smoking:

Some studies suggest that cigarette smoking increases the risk of occupational respiratory diseases, including silica-related respiratory diseases.

Carcinogenicity:

California Proposition 65 Warning:

This product contains chemicals known to the State of California to cause cancer.

International Agency for the Research on Cancer (IARC):

Crystalline silica inhaled in the forms of quartz or cristobalite from occupational sources is carcinogenic to humans.

Carbon black is possibly carcinogenic to humans.



The National Toxicology Program (NTP):

NTP has concluded that respirable crystalline silica is a known human carcinogen.

LD50:

Silicon Dioxide: Rat oral >22,500 mg/kg Mouse oral >10,500 mg/kg

NFPA Ratings (Scale 0-4): health = 2, flammability = 0, reactivity = 0, personal protection = E

Section 4. First Aid Measures

Signs and symptoms of over exposure: Breathlessness, wheezing, cough, sputum production

First Aid:

Swallowed:

If swallowed, dilute by drinking large amounts of water. Do not induce vomiting. Seek medical attention. If unconscious, loosen tight clothing and lay the person on his/her left side. Give nothing by mouth to an individual who is not alert and conscious.

Eye Contact:

Remove contact lens. Flush with running water or saline for at least 15 minutes. Seek medical attention if redness persists or if visual changes occur.

Skin Contact:

Wash with mild soap and water. Contact physician if irritation persists or later develops.

Inhaled:

Remove to fresh air. If shortness of breath or wheezing develops, seek medical attention.

ADVICE TO DOCTOR: Treat symptomatically

Section 5. Fire Fighting Measures

James Hardie[®] fiber-cement products are neither flammable nor explosive.

Fire and Explosion Hazard:

1. Flash Point: Not applicable
2. Auto-ignition: Not applicable
3. Non-flammable and non-explosive

Extinguishing Media: This material is not combustible. Appropriate extinguishing media (carbon dioxide, foam, water, or dry chemical) for surrounding fire should be used.

Fire Fighting: Fire fighting personnel should wear normal protective equipment and positive self-contained breathing apparatus.



Section 6. Accidental Release Measures

No special precautions are necessary to pick up product that has been dropped. The following applies to spills or releases of dust generated during cutting or sanding of the material.

Precautions: Good housekeeping practices are necessary for cleaning up areas where spills or leaks have occurred. Take measures to either eliminate or minimize the creation of dust. Respirable dust and silica levels should be monitored regularly.

Wherever possible, practices likely to generate dust should be controlled with engineering controls such as local exhaust ventilation, dust suppression through containment (for example, wetting loose dust), enclosure, or covers.

Use respiratory protection as described in Section 8.

Cleanup Methods: A fine water spray should be used to suppress dust when sweeping (dry sweeping should not be attempted). Vacuuming with an industrial vacuum cleaner outfitted with a high-efficiency particulate (HEPA) filter is preferred to sweeping. Waste may be disposed of by landfill in compliance with federal, state and local requirements.

In the event of an accidental release, observe all protection measures set out in this MSDS. Avoid using materials and products that are incompatible with the product. (refer to Section 10)

Section 7. Handling and Storage

Note: The fiber cement boards in their intact state do not present a health hazard. The controls below apply to dust generated from the boards by cutting, drilling, routing, sawing, crushing, or otherwise abrading, and cleaning or moving this dust.

James Hardie's recommendation: Keep exposure to dust as low as reasonably possible. Respirable crystalline silica limits are specified by OSHA and MSHA and identified in Section 8 of this MSDS. Exposure to respirable (fine) silica dust depends on a variety of factors, including activity rate (e.g. cutting rate), method of handling (e.g. electric shears), environmental conditions (e.g. weather conditions, workstation orientation) and control measures used.

Wherever possible, practices likely to generate dust should be carried out in well ventilated areas (e.g. outside). The work practices and engineering controls set out in Section 8 should be followed to reduce silica exposures.

Keep away from reactive products. Do not store near food, beverages or smoking materials. Avoid spilling and creating dust. Maintain appropriate dust controls during handling. Use appropriate respiratory protection during handling as described in Section 8.



Section 8. Exposure Controls and Personal Protection

OSHA Permissible Exposure Standards (PEL): Exposures shall not exceed an 8-hour time weighted average (TWA) limit as stated in 29 CFR 1910.1000 Table Z-3 for mineral dusts, expressed in million particles per cubic foot (Mppcf) and/or milligrams per cubic meter (mg/m^3). The American Conference of Governmental Industrial Hygienists Threshold Limit Values (TLV are that organization's recommended exposure limits based on an 8-hour TWA.

	<u>TLV mg/m^3</u>	<u>PEL Mppcf</u>	<u>PEL mg/m^3</u>
Crystalline Silica (Quartz) (Respirable)	0.025 mg/m^3 ----	<u>250</u> % SiO_2+5	<u>10mg/m^3</u> % SiO_2+2
Quartz (Total Dust)	----	----	<u>30mg/m^3</u> % SiO_2+2
Calcium Carbonate (Total Dust) (Respirable)	10 mg/m^3 ----	---- ----	15 mg/m^3 5 mg/m^3
Calcium Silicate (Total Dust) (Respirable)	---- ----	---- ----	15 mg/m^3 5 mg/m^3
Nuisance Dust (Not Otherwise Specified) (Total Dust)	10 mg/m^3 (inhalable)	50	15 mg/m^3
(Respirable)	3 mg/m^3	15	5 mg/m^3
Cellulose (Total) (Respirable)	---- ----	---- ----	15 mg/m^3 5 mg/m^3
Carbon Black	3.5 mg/m^3	----	3.5 mg/m^3

Other Limits Recommended: The National Institute of Occupational Safety and Health also has a Recommended Exposure Limit (REL) of 0.05 mg/m^3 for respirable crystalline silica, based on a 10-hour time-weighted average.

Products may be coated. If coated, the coating will be water based acrylic paint or acrylic sealer.

Personal Protection: When handling products that may generate silica dust: (1) follow our best practices to limit the release of dust; (2) work outdoors whenever possible, (3) wear a NIOSH-approved dust mask or respirator (e.g., the N 95 dust mask) to further limit exposure to respirable silica dust; and (4) warn others in the area.

Respiratory: If respirators are selected, use and maintain in accordance with ANSI Standard (Z88.2) for particulate respirators. Select respirators based on the level of exposure to crystalline silica as measured by dust sampling. Use respirators that offer protection to the highest concentrations of crystalline silica if the actual concentrations are unknown. Put in place a respiratory protection and monitoring program that complies with MSHA or OSHA (e.g. 29 CFR 1910.134) standards, which include provisions for a user training program, respirator repair



and cleaning, respirator fit testing and other requirements. Comply with all other applicable federal and state laws.

Eye: When cutting material, dust resistant safety goggles/glasses should be worn and used in compliance with ANSI Standard Z87.1-1-1989 and applicable OSHA (e.g. 29 CFR 1910.133) standards.

Skin: Loose comfortable clothing should be worn. Direct skin contact with dust and debris should be avoided by wearing long sleeved shirts and long trousers, a cap or hat, and gloves. Work clothes should be washed regularly.

Engineering Controls

Cutting Outdoors

1. Position cutting station so that wind will blow dust away from user or others in working area and allow for ample dust dissipation.
2. Use one of the following methods based on the required cutting rate and jobsite conditions:

Best

- Score and snap using carbide-tipped scoring knife or utility knife
- Fiber Cement Shears (electric or pneumatic)

Better

- Dust reducing circular saw equipped with Hardieblade™ saw blade and HEPA vacuum extraction

Good (*for low to moderate cutting only*)

- Dust reducing circular saw with Hardieblade™ saw blade

Cutting Indoors

- Cut only using score and snap method or with Fiber Cement Shears (manual, electric or pneumatic).
- Position cutting station in well-ventilated area to allow for dust dissipation

Sanding/Rebating/Drilling/Other Machining

If sanding, rebating, drilling, or other machining is necessary, you should always wear a NIOSH-approved dust mask or respirator (e.g. N-95) and warn others in the immediate area.

Clean-Up

During clean-up of dust and debris, NEVER dry sweep as it may excite silica dust particles into the user's breathing area. Instead, wet debris down with a fine mist to suppress dust during sweeping, or use a HEPA vacuum to collect particles.

- Important Notes:**
1. For maximum protection (lowest respirable dust production), James Hardie recommends always using "Best"- level cutting methods where feasible
 2. NEVER use a power saw indoors
 3. NEVER use a circular saw blade that does not carry the Hardieblade™ saw blade trademark
 4. NEVER dry sweep – use wet suppression methods or HEPA vacuum
 5. NEVER use a grinder or continuous rim diamond blade for cutting
 6. ALWAYS follow tool manufacturer's safety recommendations



Section 9. Physical and Chemical Properties

Appearance and Odor: Solid gray boards with varying dimensions according to product

Vapor Pressure: Not Relevant

Specific Gravity: Not Relevant

Flammability Limits: Not Relevant

Boiling Point: Not Relevant

Melting Points: Not Relevant

NEPA Ratings (SCALE 0~4): health = 2, flammability = 0, reactivity = 0, personal protection = E

Flash Point: Not Relevant

Autoignition Temp: Not Relevant

Volatility: Not Relevant

Solubility in Water: Not Relevant

Evaporation Rate: Not applicable

Section 10. Stability and Reactivity

Stability: Crystalline silica and limestone are stable under ordinary conditions.

Conditions to Avoid: Excessive dust generation during storage and handling.

Materials to Avoid:

Incompatibility: Hydrofluoric acid will dissolve silica and can generate silicon tetrafluoride, a corrosive gas. Contact with strong oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride or oxygen difluoride may cause fires and/or explosions. Furthermore, limestone is incompatible with acids and ammonium salts.

Section 11. Toxicological Information

The product is not toxic in its intact form. The following applies to dust that may be generated during cutting and sanding:

Chronic Effects:

Inhaled:

Repeated and prolonged overexposures to dust containing crystalline silica can cause silicosis (scarring of the lung) and increases the risk of bronchitis, tuberculosis, lung cancer, renal disease and scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels and internal organs). Some studies suggest that cigarette smoking increases the risk of silicosis, bronchitis, and lung cancer in persons also exposed to crystalline silica. Acute silicosis is a rapidly progressive, incurable lung disease that is typically fatal. Symptoms include, but are not limited to: shortness of breath, cough, fever, weight loss and chest pain. Such exposure may cause pneumoconiosis and pulmonary fibrosis.

The following relates to health effects of cellulose: Based on limited animal research, it is possible that repeated chronic inhalation exposure to cellulose fiber dust over time may lead to inflammation and scarring of the lung in humans. Precautions taken for crystalline silica dust will protect against cellulose.



Section 12. Ecological Information

There is a very limited amount of ecological data available on the effects of releases that may occur from this product being released into the environment. Clean up of the spilled product would not be expected to leave any hazardous material that could cause a significant adverse impact. There is a limited amount of ecological data available on crystalline silica, primarily because it is a naturally occurring mineral. An adequate representation of these data is beyond the scope of this document.

Section 13. Disposal Consideration

Dispose of material as inert, non-metallic mineral in conformance with local, state and federal regulations. Crystalline silica and limestone is not a RCRA hazardous waste.

Section 14. Transport Information

There are no special requirements for storage and transport.

UN No:	None Allocated
Dangerous Goods Class:	None Allocated
Hazchem Code:	None Allocated
Poisons Schedule:	None Allocated
Packing Group:	Not Applicable
Label:	Not a DOT hazardous material. Local regulations may apply

Section 15. Regulatory Information

DOT Hazard Classification: None

Placard requirement: Not a DOT hazardous material. Local placarding regulations may apply.

California Proposition 65: Warning: Airborne particles of respirable size of crystalline silica are known to the State of California to cause cancer.

CERCLA Hazardous Substance (40 CFR Part 302):

Listed Substance: No.
Unlisted Substance: No.
Reportable Quantity (RQ): None.
Characteristic(s): Not applicable.
RCRA Waste Number: Not applicable.



SARA, Title III, Sections 302/303 (40 CFR part 355 – Emergency Planning and Notification):

Extremely Hazardous Substance: No.

SARA, Title III, Section 311/312 (40 CFR Part 370 – Hazardous Chemical Reporting: Community Right-To-Know):

Acute: Yes. Chronic: Yes. Fire: No. Pressure: No. Reactivity: No.

**SARA, Title III, Section 313
(40 CFR Part 372 – Toxic chemical Release Reporting: Community Right-To-Know):**

Not a RCRA Hazardous Waste.

TSCA Inventory List: Yes

TSCA 8(d): No



WARNING

WARNING: AVOID BREATHING SILICA DUST

James Hardie® products contain chemicals, known to the State of California to cause cancer. Respirable crystalline silica is considered by IARC and NIOSH to be a cause of cancer from some occupational sources. Breathing excessive amounts of respirable silica dust can also cause a disabling and potentially fatal lung disease called silicosis, and has been linked with other diseases. Some studies suggest smoking may increase these risks. During installation or handling: (1) work in outdoor areas with ample ventilation; (2) use fiber cement shears for cutting or, where not feasible, use a Hardieblade™ saw blade and dust-reducing circular saw attached to a HEPA vacuum; (3) warn others in the immediate area; (4) wear a properly-fitted, NIOSH-approved dust mask or respirator (e.g. N-95) in accordance with applicable government regulations and manufacturer instructions to further limit respirable silica exposures. During clean-up, use HEPA vacuums or wet cleanup methods - *never* dry sweep. For further information, refer to our installation instructions and Material Safety Data Sheet available at www.jameshardie.com or by calling 1-800-9HARDIE (1-800-942-7343). **FAILURE TO ADHERE TO OUR WARNINGS, MSDS, AND INSTALLATION INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL INJURY OR DEATH.**

**James Hardie Building Products
26300 La Alameda, Suite 400
Mission Viejo, CA 92691**

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The information contained on this MSDS was produced without independent scientific or medical studies analyzing the effects of silica upon human health. The information contained herein is based upon scientific and other data James Hardie Building Products believes is valid and reliable and provides the basis for this MSDS. The information contained herein relates only to specific materials listed in the document. It does not address the effects of silica when used in combination with other materials or substances, or when used in other processes. Because conditions of use are beyond James Hardie Building Products control, the company makes no representation, guarantee or warranty of any kind in this MSDS, either express or implied, including the implied warranties of merchantability or fitness of the product for use for a particular purpose, and assumes no liability related to the information contained above.

James Hardie Building Products requires, as a condition of use of its products, that purchasers comply with all applicable federal, state, and local health and safety laws, regulations, orders, requirements, and strictly adhere to all instructions and warnings which accompany the product.



SAFETY DATA SHEET

Section 1. Identification	
Product Identifier:	HardieWrap™
Manufacturer Name, Address and Phone Number:	James Hardie Building Products 231 S. LaSalle Street, Suite 2000 Chicago, IL 60604 1-800-942-7343 (1-800-9HARDIE)
Emergency Phone Number:	1-800-942-7343 (1-800-9HARDIE)
Recommended Use:	HardieWrap™ is used as a coated external housewrap
Restrictions on Use:	None known
Section 2. Hazards Identification	
GHS Classification:	HardieWrap™ is classified as an article under the definition in 29 CFR 1910.1200(c).
GHS Label Element(s): Symbol	N/A
Signal Word	N/A
Hazard Statement(s)	N/A
Precautionary Statement(s)	N/A
Section 3. Composition / Information on Ingredients	
Components of construction include polymer, additives, and ink. Quantities of listed compounds contained in HardieWrap™ are not reportable under the article exemption, since they do not release or otherwise result in exposure of a hazardous chemical under normal conditions of use.	
Section 4. First Aid Measures	
Inhalation	Inhalation is an unlikely route of entry. This product is not expected to result in adverse health effects.
Skin	Adverse effects from skin contact under normal conditions of handling and use are not expected.
Eyes	Eye contact may cause irritation due to mechanical abrasion. If eye contact occurs, flush with running water or saline for at least 15 minutes. Seek medical attention if redness persists or if visual changes occur.
Ingestion	Ingestion is an unlikely route of entry. This product is not expected to result in adverse health effects.
Section 5. Fire-Fighting Measures	
HardieWrap™ is neither flammable nor explosive	
Suitable extinguishing techniques:	Water spray, CO2 or dry chemical
Fire-fighting equipment:	Fire fighting personnel should wear normal protective equipment and positive self-contained breathing apparatus.



Special hazards arising from the substance or mixture:	HardieWrap™ is neither flammable nor explosive. Hazardous reactions will not occur under normal conditions. May release hazardous vapors during a fire. Fight fire with normal precautions from a reasonable distance.
Section 6. Accidental Release Measures	
Emergency procedures:	No special precautions are necessary in the event of an accidental release. Prevent material the material from entering drains or watercourses.
Protective equipment:	None required
Proper methods of containment and clean-up:	No special precautions are necessary in the event of an accidental release. Dispose of product in accordance with local, state and national regulations.
Section 7. Handling and Storage	
Precautions of safe handling and storage:	Keep away from heat and sources of ignition. Storage area should be cool, dry and well-ventilated. Keep away from incompatible materials.
Incompatibilities:	None known.
Section 8. Exposure Controls / Personal Protection	
No exposure limits have been established for this article.	
Engineering Controls:	No specific measures necessary. Good general room ventilation is expected to adequately control airborne levels.
Personal Protective Equipment:	Inhalation: Respiratory protection not normally required
	Skin: Not required under normal conditions of use
	Eyes: Safety glasses
	Body protection: Normal work wear
Section 9. Physical and Chemical Properties	
Appearance and odor: White coated fabric with green ink and no odor.	
Vapor Pressure: Not relevant	Flash Point: Not known
Specific Gravity: Not relevant	Autoignition Temperature: Not relevant
Flammability Limits: Not relevant	Volatility: Not relevant
Boiling Point: Not applicable	Solubility in water: Insoluble
Melting Point: Not applicable	Evaporation rate: Not applicable
Section 10. Stability and Reactivity	
Stability:	HardieWrap™ is stable under normal conditions of use
Conditions to Avoid:	Heat, high temperatures
Materials to Avoid:	Strong oxidizing agents, chlorinated solvents.
Hazardous Polymerization:	Will not occur.
Hazardous Decomposition Products:	Oxides of carbon – combustible gases
Section 11. Toxicological Information	
Routes of exposure:	HardieWrap™ is not toxic in its intact form.
Related symptoms:	None expected.



Acute and chronic effects:	<ul style="list-style-type: none">• Acute toxicity – not classified• Skin corrosion / irritation – not classified• Serious eye damage / irritation – not classified• Respiratory or skin sensitization – not classified• Germ cell mutagenicity – not classified• Carcinogenicity – not classified• Specific target organ toxicity – not classified
Section 12. Ecological Information	
There is a very limited amount of ecological data available on the effects of releases that may occur from this product being released into the environment. Clean up of the spilled product would not be expected to leave any hazardous material that could cause a significant adverse impact. An adequate representation of these data is beyond the scope of this document.	
Section 13. Disposal Considerations	
Dispose in conformance with local, state and federal regulations. HardieWrap™ is not a RCRA hazardous waste.	
Section 14. Transport Information	
There are no special requirements for storage and transport	
UN No:	None allocated
Dangerous goods class:	None allocated
Hazchem code:	None allocated
Poisons schedule:	None allocated
Packing group:	Not applicable
Label:	Not a DOT hazardous material. Local regulations may apply
Section 15. Regulatory Information	
Quantities of listed compounds contained in this product are not reportable under the article exemption.	
Section 16. Other Information	
Prepared by Jeff Fry	Issue Date: 06/01/15

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James Hardie Building Products requires, as a condition of use of its products, that purchasers comply with all applicable federal, state, and local health and safety laws, regulations, orders, requirements, and strictly adhere to all instructions and warnings which accompany the product.

Safety Data Sheet



Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • **LPSmartSide Precision Series Products (SmartSide Prefinished Siding & Trim, SmartSide Primed Siding & Trim, SmartSide Precision Panel with SmartFinish, SmartSide Precision Panel with SilverTech)**

Product Description • Composite wood panels in nominal thicknesses and in various lengths and widths, and with various finishes and overlays.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • Exterior cladding; structural wall and roof component;

1.3 Details of the supplier of the safety data sheet

Manufacturer • Louisiana-Pacific Corporation
414 Union Street, Suite 2000
Nashville, TN 37219
United States
www.lpcorp.com

Telephone (General) • 877-744-5600

1.4 Emergency telephone number

Manufacturer • 615-986-5600

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

This product is not hazardous in the form in which it is shipped by the manufacturer but may become hazardous by downstream activities (e.g., cutting, sanding, milling) that reduce its particle size. Those hazards are described below.

CLP • Skin Sensitization 1 - H317
Respiratory Sensitization 1 - H334
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335
Carcinogenicity 1A - H350

DSD/DPD • Irritant (Xi)
Harmful (Xn)
Carcinogenic Substances - Category 1

2.2 Label Elements

CLP

DANGER



- Hazard statements**
- H317 - May cause an allergic skin reaction
 - H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
 - H335 - May cause respiratory irritation
 - H350 - May cause cancer.

Precautionary statements

- Prevention**
- P201 - Obtain special instructions before use.
 - P202 - Do not handle until all safety precautions have been read and understood.
 - P261 - Avoid breathing dust.
 - P271 - Use only outdoors or in a well-ventilated area.
 - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 - P281 - Use personal protective equipment as required.
 - P285 - In case of inadequate ventilation wear respiratory protection.
- Response**
- P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
 - P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
 - P321 - Specific treatment, see supplemental first aid information.
 - P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 - P363 - Wash contaminated clothing before reuse.
 - P308+P313 - IF exposed or concerned: Get medical advice/attention.
- Storage/Disposal**
- P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD



- Risk phrases**
- R37 - Irritating to respiratory system.
 - R42/43 - May cause sensitisation by inhalation and skin contact.
 - R45 - May cause cancer.

- Safety phrases**
- S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 - S53 - Avoid exposure - obtain special instructions before use.

2.3 Other Hazards

CLP

- May form combustible dust concentrations in air.
According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

DSD/DPD

- May form combustible dust concentrations in air.

According to European Directive 1999/45/EC this material is considered dangerous.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

This product is not hazardous in the form in which it is shipped by the manufacturer but may become hazardous by downstream activities (e.g., cutting, sanding, milling) that reduce its particle size. Those hazards are described below.

OSHA HCS 2012

- Skin Sensitization 1
- Respiratory Sensitization 1
- Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
- Carcinogenicity 1A
- Combustible Dust

2.2 Label elements

OSHA HCS 2012

DANGER



- Hazard statements**
- May cause an allergic skin reaction
 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
 - May cause respiratory irritation
 - May cause cancer.
 - May form combustible dust concentrations in air.

Precautionary statements

- Prevention**
- Obtain special instructions before use.
 - Do not handle until all safety precautions have been read and understood.
 - Avoid breathing dust.
 - Use only outdoors or in a well-ventilated area.
 - Wear protective gloves/protective clothing/eye protection/face protection.
 - In case of inadequate ventilation wear respiratory protection.
- Response**
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
 - Call a POISON CENTER or doctor/physician if you feel unwell.
 - If on skin: Wash with plenty of water.
 - Specific treatment, see supplemental first aid information.
 - If skin irritation or rash occurs: Get medical advice/attention.
 - Wash contaminated clothing before reuse.
 - IF exposed or concerned: Get medical advice/attention.
- Storage/Disposal**
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

OSHA HCS 2012

- Not applicable.

Canada

According to: WHMIS

2.1 Classification of the substance or mixture

This product is not hazardous in the form in which it is shipped by the manufacturer but may become hazardous by downstream activities (e.g., cutting, sanding, milling) that reduce its particle size. Those hazards are described below.

- WHMIS**
- Other Toxic Effects - D2A
Other Toxic Effects - D2B

2.2 Label elements

WHMIS



- Other Toxic Effects - D2A
Other Toxic Effects - D2B

2.3 Other hazards

- WHMIS**
- May form combustible dust concentrations in air.
In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

2.4 Other information

- This product is not hazardous in the form in which it is shipped by the manufacturer but may become hazardous by downstream activities (e.g., cutting, sanding, milling) that reduce its particle size. Those hazards are described above.

Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

Composition			
Chemical Name	Identifiers	%	Classifications According to Regulation/Directive
Wood Strands	NDA	80% TO 95%	EU DSD/DPD: Xi, R37; Xn, R42/43; Carc 1, R45 EU CLP: Self Classified: Skin Sens 1, H317; Resp Sens 1, H334; STOT SE 3, H335; Carc 1A, H350 OSHA HCS 2012: Skin Sens 1, Resp Sens 1, STOT SE 3 (Resp Irrit), Carc 1A, Comb Dust
Polyurea/Polyurethane Solids ⁽¹⁾	NDA	< 10%	EU DSD/DPD: Not relevant EU CLP: Not relevant OSHA HCS 2012: Not relevant
Resin Saturated Paper	NDA	< 5%	EU DSD/DPD: Not relevant EU CLP: Not relevant OSHA HCS 2012: Not relevant

Laminated Paper/Foil ⁽²⁾	NDA	< 5%	EU DSD/DPD: Not Relevant EU CLP: Not Relevant OSHA HCS 2012: Not Relevant
Zinc Borate Hydrate	CAS:138265-88-0	< 2%	EU DSD/DPD: Exposure limits EU CLP: Exposure limits OSHA HCS 2012: Exposure limits
Tallow Wax ⁽³⁾	CAS:8030-12-4	< 2%	EU DSD/DPD: Not relevant EU CLP: Not relevant OSHA HCS 2012: Not relevant
Paraffin Wax ⁽³⁾	CAS:8002-74-2 EC Number:232-315-6	< 2%	EU DSD/DPD: Exposure limits EU CLP: Not relevant OSHA HCS 2012: Exposure limits
Palm Wax ⁽³⁾	CAS:68514-74-9	< 2%	EU DSD/DPD: Not relevant EU CLP: Not relevant OSHA HCS 2012: Not relevant
Top Coat	NDA	< 1%	EU DSD/DPD: Not relevant EU CLP: Not relevant OSHA HCS 2012: Not relevant
Base coat	NDA	< 1%	EU DSD/DPD: Not relevant EU CLP: Not relevant OSHA HCS 2012: Not relevant
Edge Coat	NDA	N/A	EU DSD/DPD: Not relevant EU CLP: Not relevant OSHA HCS 2012: Not relevant

⁽¹⁾ This ingredient is a cured, inert and polymerized form of polymeric diphenylmethane diisocyanate (pMDI) adhesive. All pMDI has been reacted during the curing process to form polyurea/polyurethane solids.

⁽²⁾ This material will only be present in the SmartFinish or SilverTech versions of this product.

⁽³⁾ One of the waxes listed above was used in the manufacturing process.

Key to abbreviations

NDA = No Data Available

Section 4 - First Aid Measures

4.1 Description of first aid measures

- | | |
|-------------------|--|
| Inhalation | <ul style="list-style-type: none"> • IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention. |
| Skin | <ul style="list-style-type: none"> • In case of contact with substance, wash with plenty of soap and water. If irritation develops and persists, get medical attention. |
| Eye | <ul style="list-style-type: none"> • In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention. |
| Ingestion | <ul style="list-style-type: none"> • First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. |

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

- | | |
|---------------------------|--|
| Notes to Physician | <ul style="list-style-type: none"> • All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. |
|---------------------------|--|

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media • Water, Dry Chemical, Sand and CO₂.

Unsuitable Extinguishing Media • None known.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • 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.

Hazardous Combustion Products • No data available

5.3 Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions • Use appropriate Personal Protective Equipment (PPE) Do not breathe dust. Avoid generating dust. Avoid contact with skin, eyes or clothing.

Emergency Procedures • ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid activities that cause wood dust to become airborne.

6.2 Environmental precautions

- No special environmental precautions necessary.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures • Avoid generating dust.
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. Sweep up carefully to avoid generating airborne dust or use a vacuum rated for use with combustible dust.
Place recovered wood dust in a container for proper disposal.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling • Minimize dust generation and accumulation. Do not use in areas without adequate ventilation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Provide adequate precautions, such as electrical grounding and bonding. Keep away from heat and ignition sources – No Smoking. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Avoid prolonged and repeated contact with the skin.

7.2 Conditions for safe storage, including any incompatibilities

Storage • Store in a dry, well-ventilated place.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	Australia	Canada Alberta	Canada British Columbia	Canada Manitoba
Paraffin Wax (8002-74-2)	TWAs	2 mg/m3 TWA (fume)	2 mg/m3 TWA (fume)	2 mg/m3 TWA (fume)	2 mg/m3 TWA (fume)	2 mg/m3 TWA (fume)
Zinc Borate Hydrate as Particulates not otherwise classified (PNOC)	TWAs	10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended) <i>as Particulates not otherwise classified (PNOC)</i>	Not established	10 mg/m3 TWA (total); 3 mg/m3 TWA (respirable) <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m3 TWA (total dust); 3 mg/m3 TWA (respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended) <i>as Particulates not otherwise classified (PNOC)</i>
Wood Strands	TWAs	10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended) <i>as Particulates not otherwise classified (PNOC)</i> 0.5 mg/m3 TWA (inhalable fraction) <i>as Wood dust, western red cedar</i> 1 mg/m3 TWA (inhalable fraction) <i>as Wood dusts (all other wood dusts)</i>	Not established	10 mg/m3 TWA (total); 3 mg/m3 TWA (respirable) <i>as Particulates not otherwise classified (PNOC)</i> 5 mg/m3 TWA (total) <i>as Wood dust, all soft and hard woods</i> 0.5 mg/m3 TWA (total) <i>as Wood dust, western red cedar</i>	10 mg/m3 TWA (total dust); 3 mg/m3 TWA (respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended) <i>as Particulates not otherwise classified (PNOC)</i> 0.5 mg/m3 TWA (inhalable fraction) <i>as Wood dust, western red cedar</i> 1 mg/m3 TWA (inhalable fraction) <i>as Wood dusts (all other wood dusts)</i>
Exposure Limits/Guidelines (Con't.)						
	Result	Canada New Brunswick	Canada Northwest Territories	Canada Nova Scotia	Canada Nunavut	Canada Ontario
Paraffin Wax (8002-74-2)	TWAs	2 mg/m3 TWA (fume)	2 mg/m3 TWA (fume)	2 mg/m3 TWA (fume)	2 mg/m3 TWA (fume)	2 mg/m3 TWA (fume)
	STELs	Not established	6 mg/m3 STEL (fume)	Not established	6 mg/m3 STEL (fume)	Not established
Zinc Borate Hydrate as Particulates not otherwise classified (PNOC)	TWAs	3 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction);	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass) <i>as Particulates not</i>	10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended)	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass) <i>as Particulates not</i>	10 mg/m3 TWA (inhalable); 3 mg/m3 TWA (respirable) <i>as Particulates not otherwise classified</i>

		10 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, inhalable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	<i>otherwise classified (PNOC)</i>	<i>as Particulates not otherwise classified (PNOC)</i>	<i>otherwise classified (PNOC)</i>	(PNOC)
Wood Strands	TWAs	3 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction); 10 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, inhalable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass) <i>as Particulates not otherwise classified (PNOC)</i> 5 mg/m3 TWA <i>as Wood dust, all soft and hard woods</i>	10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended) <i>as Particulates not otherwise classified (PNOC)</i> 0.5 mg/m3 TWA (inhalable fraction) <i>as Wood dust, western red cedar</i> 1 mg/m3 TWA (inhalable fraction) <i>as Wood dusts (all other wood dusts)</i>	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass) <i>as Particulates not otherwise classified (PNOC)</i> 5 mg/m3 TWA <i>as Wood dust, all soft and hard woods</i>	10 mg/m3 TWA (inhalable); 3 mg/m3 TWA (respirable) <i>as Particulates not otherwise classified (PNOC)</i>
	STELs	Not established	10 mg/m3 STEL <i>as Wood dust, all soft and hard woods</i>	Not established	10 mg/m3 STEL <i>as Wood dust, all soft and hard woods</i>	Not established

Exposure Limits/Guidelines (Con't.)

	Result	Canada Quebec	Canada Saskatchewan	Canada Yukon	Mexico	New Zealand
Paraffin Wax (8002-74-2)	STELs	Not established	4 mg/m3 STEL	6 mg/m3 STEL (fume)	6 mg/m3 STEL [LMPE-CT] (fume)	Not established
	TWAs	2 mg/m3 TWAEV (fume)	2 mg/m3 TWA	2 mg/m3 TWA (fume)	2 mg/m3 TWA LMPE-PPT (fume)	2 mg/m3 TWA (fume)
Zinc Borate Hydrate as Particulates not otherwise classified (PNOC)	TWAs	10 mg/m3 TWAEV (including dust, inert or nuisance particulates; containing no Asbestos and <1% Crystalline silica, total dust) <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m3 TWA (insoluble or poorly soluble, inhalable fraction); 3 mg/m3 TWA (insoluble or poorly soluble, respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	Not established	Not established	3 mg/m3 TWA (respirable dust); 10 mg/m3 TWA (inhalable dust) <i>as Particulates not otherwise classified (PNOC)</i>
	STELs	Not established	20 mg/m3 STEL (insoluble or poorly soluble, inhalable fraction); 6 mg/m3 STEL (insoluble or poorly soluble, respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	Not established	Not established	Not established

Wood Strands	TWAs	10 mg/m3 TWAEV (including dust, inert or nuisance particulates; containing no Asbestos and <1% Crystalline silica, total dust) <i>as Particulates not otherwise classified (PNOC)</i> 5 mg/m3 TWAEV (except red cedar, containing no Asbestos and <1% Crystalline silica, total dust) <i>as Wood dust, all soft and hard woods</i> 2.5 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, total dust) <i>as Wood dust, western red cedar</i>	10 mg/m3 TWA (insoluble or poorly soluble, inhalable fraction); 3 mg/m3 TWA (insoluble or poorly soluble, respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	5 mg/m3 TWA (non-allergenic); 2.5 mg/m3 TWA (allergenic, including cedar, mahogany, teak) <i>as Wood dust, all soft and hard woods</i>	Not established	3 mg/m3 TWA (respirable dust); 10 mg/m3 TWA (inhalable dust) <i>as Particulates not otherwise classified (PNOC)</i>
	STELs	Not established	20 mg/m3 STEL (insoluble or poorly soluble, inhalable fraction); 6 mg/m3 STEL (insoluble or poorly soluble, respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m3 STEL (non-allergenic); 5 mg/m3 STEL (allergenic, including cedar, mahogany, teak) <i>as Wood dust, all soft and hard woods</i>	Not established	Not established

Exposure Limits/Guidelines (Con't.)

	Result	NIOSH	OSHA	Russia
Paraffin Wax (8002-74-2)	TWAs	2 mg/m3 TWA (fume)	Not established	Not established
Zinc Borate Hydrate	TWAs	Not established	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	Not established
Wood Strands	TWAs	1 mg/m3 TWA <i>as Wood dust, all soft and hard woods</i>	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	6 mg/m3 TWA (containing <2% Silicon dioxide, aerosol, listed under Animal and plant origin dust) <i>as Wood dust, all soft and hard woods</i>

Exposure Control Notations

Russia

•Wood as Wood dust, all soft and hard woods: **Sensitizers:** (Allergenic substance (listed under Animal and plant dust))

ACGIH

- Wood as Wood dust, western red cedar: **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
- Wood as Wood dusts (all other wood dusts): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

Exposure Limits Supplemental

ACGIH

- Paraffin Wax (8002-74-2): **TLV Basis - Critical Effects:** (nausea (fume); upper respiratory tract irritation (fume))
- Wood as Wood dust, western red cedar: **TLV Basis - Critical Effects:** (asthma)
- Wood as Wood dusts (all other wood dusts): **TLV Basis - Critical Effects:** (pulmonary function)

8.2 Exposure controls

Engineering

Measures/Controls

- 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 not leakage from the equipment).

Personal Protective Equipment

Respiratory

- For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear safety goggles.

Hands

- Wear appropriate gloves.

Skin/Body

- Wear long sleeves and/or protective coveralls.

General Industrial

Hygiene Considerations

- Wash hands before eating. Ensure adequate ventilation during use.

Environmental

Exposure Controls

- Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

LMPE = Maximum permissible exposure limit (Spanish)

MSHA = Mine Safety and Health Administration

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures

STOT = Specific Target Organ Toxicity

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Solid wood product.
Color	Varies	Odor	Typical wood odor.
Odor Threshold	Not Applicable		
General Properties			
Boiling Point	Not Applicable	Melting Point	Not Applicable
Decomposition Temperature	Not Applicable	pH	Not Applicable
Specific Gravity/Relative Density	0.56 to 0.71	Density	35 to 44 lb(s)/ft ³
Water Solubility	Not Applicable	Viscosity	Not Applicable
Explosive Properties	Data lacking	Oxidizing Properties:	Data lacking
Volatility			
Vapor Pressure	Not Applicable	Vapor Density	Not Applicable
Evaporation Rate			

	Not Applicable		
Flammability			
Flash Point	Not Applicable	UEL	Not Applicable
LEL	Not Applicable	Autoignition	200 to 260 C(392 to 500 F)
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Accumulation of dusts - mixtures of wood dust and air may be explosive when ignited. Ignition sources, heat.

10.5 Incompatible materials

- No data available

10.6 Hazardous decomposition products

- No data available

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Other Material Information • This product is not hazardous in the form in which it is shipped by the manufacturer but may become hazardous by downstream activities (e.g., cutting, sanding, milling) that reduce its particle size. Those hazards are described below.

GHS Properties	Classification
Acute toxicity	EU/CLP•Data lacking OSHA HCS 2012•Data lacking
Aspiration Hazard	EU/CLP•Data lacking OSHA HCS 2012•Data lacking
Carcinogenicity	EU/CLP•Carcinogenicity 1A OSHA HCS 2012•Carcinogenicity 1A
Germ Cell Mutagenicity	EU/CLP•Data lacking OSHA HCS 2012•Data lacking
Skin corrosion/Irritation	EU/CLP•Data lacking OSHA HCS 2012•Data lacking

Skin sensitization	EU/CLP•Skin Sensitizer 1 OSHA HCS 2012•Skin Sensitizer 1
STOT-RE	EU/CLP•Data lacking OSHA HCS 2012•Data lacking
STOT-SE	EU/CLP•Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation OSHA HCS 2012•Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
Toxicity for Reproduction	EU/CLP•Data lacking OSHA HCS 2012•Data lacking
Respiratory sensitization	EU/CLP•Respiratory Sensitizer 1 OSHA HCS 2012•Respiratory Sensitizer 1
Serious eye damage/Irritation	EU/CLP•Data lacking OSHA HCS 2012•Data lacking

Medical Conditions • Disorders of the lungs.

Aggravated by Exposure

Potential Health Effects

Inhalation

Acute (Immediate) • Exposure to dust may cause irritation. Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible. Wood dust (generated from sawing, sanding or machining the product) may cause nasal dryness, irritation, coughing and sinusitis.

Chronic (Delayed) • Prolonged exposure to the dust may cause wheezing, chest tightness, productive cough, nasal irritation and symptoms of chronic respiratory disease. Wood dust, depending on the species, may cause respiratory sensitization with prolonged, repetitive contact or exposure to elevated dust levels.

Skin

Acute (Immediate) • Exposure to dust may cause mechanical irritation. May cause skin sensitization. Symptoms include redness and skin rash.

Chronic (Delayed) • No data available.

Eye

Acute (Immediate) • Exposure to dust may cause mechanical irritation. Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.

Chronic (Delayed) • No data available.

Ingestion

Acute (Immediate) • Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.

Chronic (Delayed) • No data available

Carcinogenic Effects

• According to its Twelfth Report on Carcinogens the National Toxicology Program states, "many case reports and epidemiological studies (including cohort studies and case-control studies that specifically addressed nasal cancer) have found a strong association between exposure to wood dust and cancer of the nasal cavity. Strong and consistent associations with cancer of the nasal cavity and paranasal sinuses were observed both in studies of people whose occupations were associated with wood-dust exposure and in studies that directly estimated wood dust exposure."

Section 12 - Ecological Information

12.1 Toxicity

- Material data lacking.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- PBT and vPvB assessment has not been carried out.

12.6 Other adverse effects

- Material data lacking.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not regulated	NDA	NDA	NDA
TDG	NDA	Not regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

14.6 Special precautions for user

- None specified.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • Not applicable.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications

- Acute, Chronic

State Right To Know				
Component	CAS	MA	NJ	PA
Zinc Borate Hydrate	138265-88-0	No	No	No
Palm Wax	68514-74-9	No	No	No

Paraffin Wax	8002-74-2	Yes	Yes	Yes
Tallow Wax	8030-12-4	No	No	No
Wood	NDA	No	Yes	No

Inventory						
Component	CAS	Australia AICS	Canada DSL	EU EINECS	New Zealand	TSCA
Zinc Borate Hydrate	138265-88-0	No	No	No	Yes	No
Palm Wax	68514-74-9	Yes	Yes	Yes	Yes	Yes
Paraffin Wax	8002-74-2	Yes	Yes	Yes	Yes	Yes
Tallow Wax	8030-12-4	Yes	Yes	Yes	Yes	Yes
Wood	NDA	Yes	Yes	Yes	Yes	Yes

Australia

Labor

Australia - Work Health and Safety Regulations - Hazardous Substances Requiring Health Monitoring

•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

Australia - High Volume Industrial Chemicals List

•Paraffin Wax	8002-74-2	
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

Australia - List of Designated Hazardous Substances - Classification

•Paraffin Wax	8002-74-2	Self classification required (fume)
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Repr.Cat.2 R60, R61
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

Australia - Work Health and Safety Regulations - Threshold Quantity at Major Hazard Facilities (Table 15.1)

•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

Australia - South Australia - Hazardous Substances Prohibited for Specified Uses

•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

Australia - South Australia - Hazardous Substances Requiring Health Surveillance

•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

Australia - Tasmania - Workplace Health and Safety - Hazardous Substances Prohibited for Specific Uses

•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed

•Palm Wax	68514-74-9	Not Listed
Australia - Tasmania - Workplace Health and Safety - Hazardous Substances Requiring Health Surveillance		
•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed
Australia - Western Australia - Hazardous Substances Prohibited for Specified Uses		
•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed
Australia - Western Australia - Hazardous Substances Requiring Health Surveillance		
•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

Environment

Australia - National Pollutant Inventory (NPI) Substance List

•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

Australia - Priority Existing Chemical Program

•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

Canada

Labor

Canada - WHMIS - Classifications of Substances

•Paraffin Wax	8002-74-2	Uncontrolled product according to WHMIS classification criteria
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

Canada - WHMIS - Ingredient Disclosure List

•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

Environment

Canada - CEPA - Priority Substances List

•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

Canada Alberta

Environment

Canada - Alberta - Ambient Air Quality Objectives

•Paraffin Wax	8002-74-2	Not Listed
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•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

Canada Saskatchewan

Environment

Canada - Saskatchewan - Dangerous Goods - Industrial Hazardous Substances

•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

Other

Canada - Substances Regulated Under F&DA That Were In Commerce Between 1/1/84 and 12/31/86

•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

Europe

Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

Russia

Labor

Russia - Limiting Quantities of Hazardous Substances

•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed

•Palm Wax

68514-74-9 Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

•Paraffin Wax

8002-74-2 Not Listed

•Tallow Wax

8030-12-4 Not Listed

•Zinc Borate Hydrate

138265-88-0 Not Listed

•Wood as Wood dust, all soft and hard woods

Not Listed

•Palm Wax

68514-74-9 Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

•Paraffin Wax

8002-74-2 Not Listed

•Tallow Wax

8030-12-4 Not Listed

•Zinc Borate Hydrate

138265-88-0 Not Listed

•Wood as Wood dust, all soft and hard woods

Not Listed

•Palm Wax

68514-74-9 Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

•Paraffin Wax

8002-74-2 Not Listed

•Tallow Wax

8030-12-4 Not Listed

•Zinc Borate Hydrate

138265-88-0 Not Listed

•Wood as Wood dust, all soft and hard woods

Not Listed

•Palm Wax

68514-74-9 Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

•Paraffin Wax

8002-74-2 Not Listed

•Tallow Wax

8030-12-4 Not Listed

•Zinc Borate Hydrate

138265-88-0 Not Listed

•Wood as Wood dust, all soft and hard woods

Not Listed

•Palm Wax

68514-74-9 Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

•Paraffin Wax

8002-74-2 Not Listed

•Tallow Wax

8030-12-4 Not Listed

•Zinc Borate Hydrate

138265-88-0 Not Listed

•Wood as Wood dust, all soft and hard woods

Not Listed

•Palm Wax

68514-74-9 Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

•Paraffin Wax

8002-74-2 Not Listed

•Tallow Wax

8030-12-4 Not Listed

•Zinc Borate Hydrate

138265-88-0 Not Listed

•Wood as Wood dust, all soft and hard woods

Not Listed

•Palm Wax

68514-74-9 Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

•Paraffin Wax

8002-74-2 Not Listed

•Tallow Wax

8030-12-4 Not Listed

•Zinc Borate Hydrate

138265-88-0 Not Listed

•Wood as Wood dust, all soft and hard woods

Not Listed

•Palm Wax

68514-74-9 Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

•Paraffin Wax

8002-74-2 Not Listed

•Tallow Wax

8030-12-4 Not Listed

•Zinc Borate Hydrate

138265-88-0 Not Listed

•Wood as Wood dust, all soft and hard woods

Not Listed

•Palm Wax

68514-74-9 Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

•Paraffin Wax

8002-74-2 Not Listed

•Tallow Wax

8030-12-4 Not Listed

•Zinc Borate Hydrate

138265-88-0 Not Listed

•Wood as Wood dust, all soft and hard woods

Not Listed

•Palm Wax

68514-74-9 Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

•Paraffin Wax

8002-74-2 Not Listed

•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed
U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents		
•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed
U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards		
•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed
U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring		
•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed
U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics		
•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List		
•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		carcinogen, initial date 12/18/09
•Palm Wax	68514-74-9	Not Listed
U.S. - California - Proposition 65 - Developmental Toxicity		
•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List		
•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances		
•Paraffin Wax	8002-74-2	Not Listed
•Tallow Wax	8030-12-4	Not Listed
•Zinc Borate Hydrate	138265-88-0	Not Listed
•Wood as Wood dust, all soft and hard woods		Not Listed
•Palm Wax	68514-74-9	Not Listed

United States - Rhode Island

Labor

U.S. - Rhode Island - Hazardous Substance List

- Paraffin Wax
- Tallow Wax
- Zinc Borate Hydrate
- Wood as Wood dust, all soft and hard woods
- Palm Wax

8002-74-2	Toxic (fume)
8030-12-4	Not Listed
138265-88-0	Not Listed
	Toxic
68514-74-9	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Last Revision Date • 05/May/2015

Preparation Date • 21/May/2012

Disclaimer/Statement of Liability • This SDS is intended solely for safety education and not for use as specifications or warranties. The information in this SDS was obtained from usually reliable sources and is provided without any representation for warranties regarding the accuracy or correctness. Since the handling, use, and storage is beyond our control, LP assumes no responsibility and disclaims liability for any loss, damage, or expense arising therefrom.

Key to abbreviations

NDA = No Data Available

LP SmartSide Precision Series Products (SmartSide Prefinished Siding Trim, SmartSide Primed Siding & Trim, SmartSide Precision Panel with SmartFinish, SmartSide Precision Panel with SilverTech)



Danger

H350 May cause cancer.

EUH019 May form explosive peroxides.

H317 May cause an allergic skin reaction

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 May cause respiratory irritation

Precaution:

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust, fume, gas, mist, vapours and/or spray.

P271 Use only outdoors or in a well-ventilated area.

P285 In case of inadequate ventilation wear respiratory protection.

P311 Call a POISON CENTER or doctor/physician.

P320 Specific treatment is urgent, see supplemental first aid information.

P363 Wash contaminated clothing before reuse.

P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P501 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.;

Louisiana-Pacific Corporation

(Material) Safety Data Sheet

Section 1 - Product and Company Identification

Material Name	▪ Prefinished Exterior Hardboard Lap Siding
Product Description	▪ 3/8" or 7/16" hardboard substrate with baked on coatings. 12 ft. strips in widths of 6", 9", and 12".
Manufacturer	▪ Louisiana-Pacific 2005 Hwy #3 East River, Nova Scotia B0J1J0 Canada
Telephone	
General	▪ 888-644-8606
Preparation Date	▪ 07/12/2011
Last Revision Date	▪ 07/12/2011

Section 2 - Hazards Identification

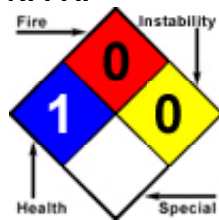
Emergency Overview

Prevention Do not breathe dust, fume, gas, mist, vapours and/or spray.

Storage/Disposal Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Particles may be irritating to skin, eyes, and respiratory tract. Inhalation of respirable dusts may cause lung injury or disease.

Physical Form	▪ Solid
Odor	▪ Slight to none.
OSHA	▪ None
WHMIS	▪ None
EU	▪ None
GHS	▪ None
Route Of Entry	▪ Inhalation, Skin, Eye
Target Organs	▪ Lungs

NFPA:**Potential Health Effects****Inhalation****Acute (Immediate)**

- Under normal conditions of use, no health effects are expected. Exposure to dust may cause irritation. Some woods can cause respiratory sensitization resulting in asthma.
- Repeated or prolonged exposure to wood dust may cause cancer.

Chronic (Delayed)**Skin****Acute (Immediate)**

- Under normal conditions of use, no health effects are expected. Exposure to dust may cause irritation. Some woods may cause skin sensitization resulting in a skin rash.
- No data available.

Chronic (Delayed)**Eye****Acute (Immediate)**

- Under normal conditions of use, no health effects are expected. Exposure to dust may cause irritation.
- No data available.

Chronic (Delayed)**Ingestion****Acute (Immediate)**

- Ingestion of wood dusts is unlikely. If ingestion does occur, slight gastrointestinal irritation may result. Certain species of wood and their dusts may contain natural toxins, which can have adverse effects on humans.
- No data available.

Chronic (Delayed)**Carcinogenic Effects**

- Prolonged exposure to wood dust by inhalation has been reported to be associated with nasal and paranasal cancer. Wood dust is classified as a carcinogen by ACGIH, NIOSH, and IARC. This classification is based on an increased incidence of nasal and paranasal cancer in people exposed to wood dusts. Residual formaldehyde gas may be released from this product. Formaldehyde gas is irritating to the eyes and upper respiratory tract and may aggravate existing respiratory conditions or allergies. OSHA has listed formaldehyde as a potential human carcinogen.

Carcinogenic Effects				
	CAS	IARC	NTP	OSHA
Formaldehyde	50-00-0	Group 1-Carcinogenic	Reasonably Anticipated to be Human Carcinogen	Specifically Regulated Carcinogen
Wood as Wood dust, all soft and hard woods	NDA	Group 1-Carcinogenic	Known Human Carcinogen	Not established

Section 3 - Composition/Information on Ingredients

Hazardous Components						
Chemical Name	CAS	%(weight)	UN;EINECS	LD50/LC50	EU Classification & R Phrases	Other
Wood		84% TO 95%	NDA	NDA	NDA	NDA
Phenol	108-95-2	<= 2.5%	UN2821 (solution), 203-632-7	Ingestion/Oral-Rat LD50 · 512 mg/kg	T; R23/24/25 C; R34 Xn; R48/20/21/22 Muta.Cat.3; R68	NDA
Paraffin	8002-74-2	<= 1%	232-315-6	NDA	NDA	NDA
Non-Hazardous Components						
Chemical Name	CAS	%(weight)	UN;EINECS	LD50/LC50	EU Classification & R Phrases	Other
Base coat		<= 1%	NDA	NDA	NDA	NDA
PrePress sealer		<= 1%	NDA	NDA	NDA	NDA
Topcoat		<= 0.5%	NDA	NDA	NDA	NDA

Under United States Regulations (29 CFR 1910.1200(c) - Hazard Communication Standard), the product(s) listed above are exempt as article(s) under stated normal conditions of use. Under Canadian regulations (Workplace Hazardous Materials Information System (WHMIS) - Hazardous Products Act (HPA), Section 11(1)), these product(s) are exempt and considered manufactured article(s) under stated normal conditions of use. Under European Directive 1999/45/EC these product(s) are exempt and considered manufactured article(s) under stated normal conditions of use. This product as an article is outside the scope of the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures

- | | |
|---------------------------|--|
| Inhalation | ▪ If signs/symptoms develop, move person to fresh air. If signs/symptoms continue, get medical attention. |
| Skin | ▪ Wash skin with soap and water. If signs/symptoms develop, get medical attention. |
| Eye | ▪ If contact with material occurs flush eyes with water. If signs/symptoms develop, get medical attention. |
| Ingestion | ▪ If signs/symptoms develop, get medical attention. |
| Notes to Physician | ▪ Exposure to dust may aggravate symptoms of persons with pre -existing respiratory tract conditions and may cause skin and gastrointestinal symptoms. |

See Section 2 for Potential Health Effects.

Section 5 - Fire Fighting Measures

- | | |
|---|--|
| Extinguishing Media | ▪ LARGE FIRE: Water spray, fog or regular foam.
SMALL FIRES: Dry chemical, CO2, water spray or regular foam. |
| Unsuitable Extinguishing Media | ▪ None known. |
| Firefighting Procedures | ▪ Fire fighters should wear complete protective clothing including self -contained breathing apparatus. |
| Unusual Fire and Explosion Hazards | ▪ Airborne wood and resin dust dispersed in air in sufficient concentrations and in the presence of an ignition source is an explosion hazard. |
| Hazardous Combustion Products | ▪ Carbon dioxide, carbon monoxide, nitrogen oxides, aldehydes, cyanides, and other hazardous gases, vapors, and particles. |
| Protection of Firefighters | ▪ Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA). |
| Autoignition Temperature | ▪ 200 to 260 C(392 to 500 F) |

Section 6 - Accidental Release Measures




Personal Precautions	▪ Avoid contact with material that generates respirable dust unless proper PPE is used.
Emergency Procedures	▪ Keep unauthorized personnel away. Use normal clean up procedures.
Environmental Precautions	▪ Not applicable.
Containment/Clean-up Measures	▪ Avoid dispersal of dust in the air.
Prohibited Materials	▪ No data available.

Section 7 - Handling and Storage

Handling	▪ Avoid accumulation of dust. Good housekeeping practices should be in place to prevent accumulation of dusts on surfaces. Do not use in areas without adequate ventilation.
Storage	▪ Ventilate enclosed areas. Keep dust away from ignition sources and store in a closed container. Consult NFPA 68 and 70 for additional information.
Special Packaging Materials	▪ No data available.
Incompatible Materials or Ignition Sources	▪ If dusts are generated during processing eliminate ignition sources.

Section 8 - Exposure Controls/Personal Protection

Personal Protective Equipment

Pictograms	▪   
Respiratory	▪ Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced. For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters.
Eye/Face	▪ Wear safety glasses with side shields.
Hands	▪ Wear appropriate gloves.
Skin/Body	▪ No data available.
Engineering Measures/Controls	▪ Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. All dust control equipment should contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Make sure that dust handling systems are designed to prevent escape of dust into the work area and that they do not leak.

Exposure Limits/Guidelines						
	Result	ACGIH	Australia	Canada Nova Scotia	Canada Ontario	France
Paraffin (8002-74-2)	TWAs	2 mg/m3 TWA (fume)	2 mg/m3 TWA (fume)	2 mg/m3 TWA (fume)	2 mg/m3 TWAEV (fume)	2 mg/m3 VME (fume)
Phenol (108-95-2)	TWAs	5 ppm TWA	1 ppm TWA; 4 mg/m3 TWA	5 ppm TWA	5 ppm TWAEV; 19 mg/m3 TWAEV	2 ppm VME (restrictive limit); 7.8 mg/m3 VME (restrictive limit)
	STELs	Not established	Not established	Not established	Not established	4 ppm VLCT (restrictive limit); 15.6 mg/m3 VLCT (restrictive limit)
Wood	TWAs	Not established	Not established	Not established	Not established	1 mg/m3 VME (restrictive limit) <i>as Wood dust, all soft and hard woods</i>

Exposure Limits/Guidelines (Con't.)				
	Result	Netherlands	NIOSH	OSHA
Paraffin (8002-74-2)	TWAs	Not established	2 mg/m3 TWA (fume)	Not established
Phenol (108-95-2)	TWAs	8 mg/m3 TWA	5 ppm TWA; 19 mg/m3 TWA	5 ppm TWA; 19 mg/m3 TWA
	Ceilings	Not established	15.6 ppm Ceiling (15 min); 60 mg/m3 Ceiling (15 min)	Not established
Wood	TWAs	Not established	1 mg/m3 TWA <i>as Wood dust, all soft and hard woods</i>	Not established

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

TWAEV = Time-Weighted Average Exposure Value

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

VME = Valeur Moyenne d'Exposition is the maximum permissible concentration for a work day

VLCT = Valeurs limites d'exposition à court terme is the short-term exposure limit based on 15-minute exposure.

Section 9 - Physical and Chemical Properties

Physical Form

- Solid

Appearance/Description

- 3/8" or 7/16" hardboard substrate with baked on coatings. 12 ft. strips in widths of 6", 9", and 12".

Color : NDA		Odor : Slight to none.	
Taste : NDA		Odor Threshold : No data available	
Boiling Point:	No data available	Vapor Pressure:	No data available
Melting Point:	No data available	Vapor Density:	No data available
Specific Gravity/Relative Density:	0.95 to 1.1 Water=1	Evaporation Rate:	No data available
Density:	59.3084 to 68.6729 lb(s)/ft³	VOC (Wt.):	No data available
Bulk Density:	No data available	VOC (Vol.):	No data available

pH:	No data available	Volatiles (Wt.):	No data available
Water Solubility:	No data available	Volatiles (Vol.):	No data available
Solvent Solubility:	No data available	Flash Point:	No data available
Viscosity:	No data available	Flash Point Test Type:	No data available
Half-Life:	No data available	UEL:	No data available
Octanol/Water Partition coefficient:	No data available	LEL:	No data available
Coefficient of water/oil distribution:	No data available	Autoignition:	200 to 260 C(392 to 500 F)
Bioaccumulation Factor:	No data available	Bioconcentration Factor:	No data available
Biochemical Oxygen Demand BOD/BOD5:	No data available	Chemical Oxygen Demand:	No data available
Persistence:	No data available	Degradation:	No data available

Section 10 - Stability and Reactivity

- | | |
|---|---|
| Stability | ▪ Stable under normal temperatures and pressures. |
| Hazardous Polymerization | ▪ Hazardous polymerization will not occur. |
| Conditions to Avoid | ▪ Accumulation of dusts - mixtures of wood dust and air are explosive when ignited. |
| Incompatible Materials | ▪ Keep away from high temperatures and strong oxidizers, such as concentrated nitric acid, oxygen, hydrogen peroxide, and chlorine. |
| Hazardous Decomposition Products | ▪ Carbon monoxide, hydrogen cyanide, and other products of wood combustion. |

Section 11 - Toxicological Information

- | | |
|-----------------------------------|--|
| Other Material Information | ▪ Prolonged exposure to wood dust by inhalation has been reported to be associated with nasal and paranasal cancer. Wood dust is classified as a carcinogen by ACGIH, NIOSH, and IARC. This classification is based on an increased incidence of nasal and paranasal cancer in people exposed to wood dusts. |
|-----------------------------------|--|

Component Name	Concentration	CAS	Data
Formaldehyde	< 0.1%	50-00-0	Acute Toxicity: ihl-rat LC50:203 mg/m3; Tumorigen/Carcinogen: ihl-rat TC :14 ppm/6H/84W-I

- | | |
|------------------------------------|--|
| Other Component Information | ▪ Residual formaldehyde gas may be released from this product. Formaldehyde gas is irritating to the eyes and upper respiratory tract and may aggravate existing respiratory conditions or allergies. OSHA has listed formaldehyde as a potential human carcinogen. Wood dust is known to be a human carcinogen. |
|------------------------------------|--|

See also Section 2.

Section 12 - Ecological Information

- | | |
|----------------------------------|--|
| Ecological Fate | ▪ No data available |
| Persistence/Degradability | ▪ No data available. |
| Bioaccumulation Potential | ▪ No data available. |
| Mobility in Soil | ▪ No data available. |
| Other Information | ▪ For the untreated product, the wood products are not expected to pose an ecological hazard as a result of their intended uses. |

Section 13 - Disposal Considerations

- | | |
|----------------|---|
| Product | ▪ Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. |
|----------------|---|

Packaging

- Dispose of this container to hazardous or special waste collection point.

Section 14 - Transportation Information

DOT - United States - Department of Transportation

Shipping Name: Not regulated

TDG - Canada - Transport of Dangerous Goods

Shipping Name: Not regulated

IMO/IMDG –International Maritime Transport

Shipping Name: Not regulated

ADN - Europe Transport of Dangerous Goods by Road/Inland Waterway

Shipping Name: Not regulated

ADR - Europe Transport of Dangerous Goods by Road/Inland Waterway

Shipping Name: Not regulated

Section 15 - Regulatory Information

State Right To Know				
Component	CAS	MA	NJ	PA
Base coat	NDA	No	No	No
PrePress sealer	NDA	No	No	No
Topcoat	NDA	No	No	No
Wood	NDA	No	No	No
Phenol	108-95-2	Yes	Yes	Yes
Paraffin	8002-74-2	Yes	Yes	Yes
Formaldehyde	50-00-0	Yes	Yes	Yes

Inventory						
Component	CAS	Australia AICS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS
Base coat	NDA	No	No	No	No	No
PrePress sealer	NDA	No	No	No	No	No
Topcoat	NDA	No	No	No	No	No
Wood	NDA	No	No	No	No	No
Phenol	108-95-2	Yes	Yes	No	Yes	No
Paraffin	8002-74-2	Yes	Yes	No	Yes	No
Formaldehyde	50-00-0	Yes	Yes	No	Yes	No

Inventory (Con't.)		
Component	CAS	TSCA
Base coat	NDA	No
PrePress sealer	NDA	No

Topcoat	NDA	No
Wood	NDA	No
Phenol	108-95-2	Yes
Paraffin	8002-74-2	Yes
Formaldehyde	50-00-0	Yes

Australia

Labor

Australia - Hazardous Substances - Substances Requiring Health Surveillance

- Phenol 108-95-2 <= 2.5% Not Listed
- Paraffin 8002-74-2 <= 1% Not Listed
- Wood as Wood dust, all soft and hard woods 84% TO 95% Not Listed

Australia - High Volume Industrial Chemicals List

- Phenol 108-95-2 <= 2.5%
- Paraffin 8002-74-2 <= 1%
- Wood as Wood dust, all soft and hard woods 84% TO 95% Not Listed

Australia - List of Designated Hazardous Substances - Classification

- Phenol 108-95-2 <= 2.5% T, Xn, C Muta.Cat.3 R68, R23/24/25, R48/20/21/22, R34
- Paraffin 8002-74-2 <= 1% Self classification required (fume)
- Wood as Wood dust, all soft and hard woods 84% TO 95% Not Listed

Environment

Australia - National Pollutant Inventory (NPI) Substance List

- Phenol 108-95-2 <= 2.5% 10 tonnes/year Threshold category 1
- Paraffin 8002-74-2 <= 1% Not Listed
- Wood as Wood dust, all soft and hard woods 84% TO 95% Not Listed

Australia - Ozone Protection Act - Scheduled Substances

- Phenol 108-95-2 <= 2.5% Not Listed
- Paraffin 8002-74-2 <= 1% Not Listed
- Wood as Wood dust, all soft and hard woods 84% TO 95% Not Listed

Australia - Priority Existing Chemical Program

- Phenol 108-95-2 <= 2.5% Not Listed
- Paraffin 8002-74-2 <= 1% Not Listed
- Wood as Wood dust, all soft and hard woods 84% TO 95% Not Listed

Canada

Labor

Canada - WHMIS - Classifications of Substances

- Phenol 108-95-2 <= 2.5% D1A, E
- Paraffin 8002-74-2 <= 1% Uncontrolled product according to WHMIS classification criteria
- Wood as Wood dust, all soft and hard woods 84% TO 95% Not Listed

Canada - WHMIS - Ingredient Disclosure List

- Phenol 108-95-2 <= 2.5% 1 %
- Paraffin 8002-74-2 <= 1% Not Listed
- Wood as Wood dust, all soft and hard woods 84% TO 95% Not Listed

Environment

Canada - CEPA - Priority Substances List

● Phenol	108-95-2	<= 2.5%	Priority Substance List 2 (substance not considered toxic)
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

Canada Nova Scotia

Environment

Canada - Nova Scotia - Ozone Layer Protection Regulations

● Phenol	108-95-2	<= 2.5%	Not Listed
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

Canada Ontario

Environment

Canada - Ontario - Airborne Contaminant Reporting - Table 2A

● Phenol	108-95-2	<= 2.5%	Not Listed
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

Canada - Ontario - Airborne Contaminant Reporting - Table 2B

● Phenol	108-95-2	<= 2.5%	Not Listed
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

Europe

Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

● Phenol	108-95-2	<= 2.5%	T; R23/24/25 C; R34 Xn; R48/20/21/22 Muta.Cat.3; R68
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

● Phenol	108-95-2	<= 2.5%	10%<=C: T; R23/24/25 3%<=C<10%: Xn; R20/21/22 3%<=C: C; R34 1%<=C<3%: Xi; R36/38
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

● Phenol	108-95-2	<= 2.5%	T R:23/24/25-34-48/20/21/22-68 S:(1/2)-24/25-26-28-36/37/39-45
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

● Phenol	108-95-2	<= 2.5%	Not Listed
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

● Phenol	108-95-2	<= 2.5%	S:(1/2)-24/25-26-28-36/37/39-45
----------	----------	---------	---------------------------------

● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

Netherlands

Other

Netherlands - List of Carcinogens

● Phenol	108-95-2	<= 2.5%	Not Listed
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

Netherlands - Major Accidents - Qualifying Quantities for Accident Prevention

● Phenol	108-95-2	<= 2.5%	Not Listed
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

Netherlands - Major Accidents - Qualifying Quantities for Safety Reporting

● Phenol	108-95-2	<= 2.5%	Not Listed
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

● Phenol	108-95-2	<= 2.5%	Not Listed
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

● Phenol	108-95-2	<= 2.5%	Not Listed
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

● Phenol	108-95-2	<= 2.5%	
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

● Phenol	108-95-2	<= 2.5%	1000 lb final RQ; 454 kg final RQ
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

● Phenol	108-95-2	<= 2.5%	Not Listed
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

● Phenol	108-95-2	<= 2.5%	1000 lb EPCRA RQ
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

● Phenol	108-95-2	<= 2.5%	500 lb lower TPQ; 10000 lb upper TPQ
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

● Phenol	108-95-2	<= 2.5%	1.0 % de minimis concentration
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

● Phenol	108-95-2	<= 2.5%	Not Listed
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

U.S. - EPA - Designated Generic Categories - Pesticides and Other PBTs

● Phenol	108-95-2	<= 2.5%	Not Listed
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

U.S. - EPA - Designated Generic Categories - Polychlorinated Alkanes

● Phenol	108-95-2	<= 2.5%	Not Listed
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

● Phenol	108-95-2	<= 2.5%	Included in waste streams: F039, K001, K022, K087
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

● Phenol	108-95-2	<= 2.5%	waste number U188
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

● Phenol	108-95-2	<= 2.5%	waste number U188
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

United States - California**Environment****U.S. - California - Proposition 65 - Carcinogens List**

● Phenol	108-95-2	<= 2.5%	Not Listed
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	carcinogen, initial date 12/18/09

U.S. - California - Proposition 65 - Developmental Toxicity

● Phenol	108-95-2	<= 2.5%	Not Listed
● Paraffin	8002-74-2	<= 1%	Not Listed
● Wood as Wood dust, all soft and hard woods		84% TO 95%	Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

- | | | | |
|--|-----------|------------|------------|
| ● Phenol | 108-95-2 | <= 2.5% | |
| ● Paraffin | 8002-74-2 | <= 1% | Not Listed |
| ● Wood as Wood dust, all soft and hard woods | | 84% TO 95% | Not Listed |

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

- | | | | |
|--|-----------|------------|------------|
| ● Phenol | 108-95-2 | <= 2.5% | Not Listed |
| ● Paraffin | 8002-74-2 | <= 1% | Not Listed |
| ● Wood as Wood dust, all soft and hard woods | | 84% TO 95% | Not Listed |

United States - Rhode Island

Labor

U.S. - Rhode Island - Hazardous Substance List

- | | | | |
|--|-----------|------------|------------------|
| ● Phenol | 108-95-2 | <= 2.5% | Toxic; Flammable |
| ● Paraffin | 8002-74-2 | <= 1% | Toxic (fume) |
| ● Wood as Wood dust, all soft and hard woods | | 84% TO 95% | Toxic |

Section 16 - Other Information

Preparation Date

- 07/12/2011

Last Revision Date

- 07/12/2011

Disclaimer/Statement of Liability

- This MSDS is intended solely for safety education and not for use as specifications or warranties. The information in this MSDS was obtained from usually reliable sources and is provided without any representation for warranties regarding the accuracy or correctness. Since the handling, use, and storage is beyond our control, LP assumes no responsibility and disclaims liability for any loss, damage, or expense arising therefrom.

Key to abbreviations

NDA = No Data Available



SECTION I: PRODUCT IDENTIFICATION

SPEC MIX, LLC
1230 Eagan Industrial Rd. Ste 160
Eagan, MN 55121 USA

Emergency Telephone Number INFOTRAC (800) 535-5053
Information Telephone Number (888) 773-2649

Revised: May-18

SDS SM5

<u>Spec Mix® Product Name</u>	<u>Item #(s)</u>
a. Fiber Base Coat Stucco	(SU-05)
b. Scratch & Brown Stucco	(SU-01)
c. Fiber Reinforced Scratch & Brown Stucco	(SU-04)

Product Use: Portland cement based plasters

SECTION II - HAZARD IDENTIFICATION

Hazard-determining components of labeling: Silica, Portland cement

2.1 Classification of the substance or mixture

Carcinogen – Category 1A

Skin Corrosion – Category 1B

Skin Sensitization – Category 1B

Specific Target Organ Toxicity Repeat Exposure – Category 1

Specific Target Organ Toxicity: Single Exposure – Category 3

2.2a Signal word DANGER!

2.2b Hazard Statements

May cause cancer through chronic inhalation

Causes severe skin burns and serious eye damage

May cause an allergic skin reaction

Causes damage to lungs through prolonged or repeated inhalation

May cause respiratory irritation

Harmful if swallowed

2.2c Pictograms



2.2d Precautionary statements

Do not handle until all safety precautions have been read and understood.

Wear impervious gloves, such as nitrile. Wear eye protection and protective clothing.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Use in a well-ventilated area. Wear a NIOSH approved respirator (mask) such as N95 in poorly ventilated areas, when used for extended times, when use is frequent, or when permissible exposure limits may be exceeded.

Do not breathe dust.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If inhaled: Remove person to fresh air and keep 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 on skin (or hair): Remove immediately all contaminated clothing and wash before re-use. Rinse skin or hair with water.

If significant skin irritation or rash occurs: get medical advice or attention.

Immediately seek medical advice or attention if symptoms are significant or persist.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/containers in accordance with all regulations.

2.3 The Portland cement in this product can cause serious, potentially irreversible damage to skin, eye, respiratory and digestive tracts due to chemical (caustic) burns, including third degree burns.

Burns from Portland cement may not cause immediate pain or discomfort. You cannot rely on pain to alert you to cement burns. Portland cement can cause dermatitis or sensitization. Therefore precautions must be taken to prevent all contact with Portland cement. Cement burns can become worse even after contact has ended. If there is contact with this product, immediately remove all product from body and thoroughly rinse with water. If you experience or suspect a cement burn or inflammation you should immediately see a health care professional.

Skin burns and irritation may be caused by brief exposure, though often are caused by extended exposure of 15 minutes, an hour, or longer. Interaction of Portland cement with water or sweat releases a caustic solution which produces the burns or irritation. Any

extended exposure should be treated as though a burn has occurred until determined otherwise.

Skin contact with Portland cement can also cause inflammation of the skin, referred to as dermatitis. Signs and symptoms of dermatitis can include itching, redness, swelling, blisters, scaling, and other changes in the normal condition of the skin. Signs and symptoms of burns include the above and whitening, yellowing, blackening, peeling or cracking of skin.

The Portland cement in this product may cause allergic contact dermatitis in sensitized individuals. This overreaction of the immune system can lead to severe inflammation. Sensitization may result from a single exposure to the low levels of Cr (VI) in Portland cement or repeated exposures over months or years. Sensitization is long lasting and, after sensitization, even very small quantities can trigger the dermatitis. Sensitization is uncommon. Individuals who experience skin problems, including seemingly minor ones, are advised to seek medical attention.

2.3a HNOC – Hazards not otherwise classified: Not applicable

2.3b Unknown Acute Toxicity: None

SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>Hazardous Components</u>	<u>CAS No.</u>	<u>% by Weight</u>
Sand, Silica, Quartz	14808-60-7	40-70*
Portland Cement	65997 15 1	10-30*
Lime	01305-62-0	5-10%

*The concentrations ranges are provided due to batch-to-batch variability.
None of the constituents of this material are of unknown toxicity.

SECTION IV – FIRST AID MEASURES

4.1 Description of the first-aid measures

General information:

After inhalation: Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. In case of unconsciousness, place patient stably in side position for transportation.

After skin contact: Wash skin with cool water and pH-neutral soap or a mild detergent. If significant skin irritation or rash occurs: get medical advice or attention.

After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

After swallowing: Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms/effects, acute and delayed

Inhalation: May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated inhalation. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

Skin contact: Skin burns and irritation may be caused from brief exposure, though often are caused by extended exposure of 15 minutes, an hour, or longer.

Eye Contact: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Ingestion: May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

4.3 Indication of immediate medical attention and special treatment needed:

Immediately seek medical advice or attention if symptoms are significant or persist.

SECTION V - FIRE FIGHTING MEASURES

5.1 Flammability of the Product: Non-flammable and non-combustible

5.2 Suitable extinguishing agents: Treat for surrounding material

5.3 Special hazards arising from the substance or mixture: None

5.3a Products of Combustion: None

5.3b Explosion Hazards in Presence of Various Substances: Non-explosive in presence of shocks

SECTION VI – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Wear personal protective equipment (See section VIII). Keep unprotected persons away.

6.2 Methods and material for containment and cleaning up:

Do not allow to enter sewers/ surface or ground water. Dispose of unwanted materials and containers properly in accordance with all regulations.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE

7.1 Handling

Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. **DO NOT BREATHE DUST.** In dusty environments, the use of an OSHA, MSHA or NIOSH approved respirator and tight fitting goggles is recommended. Wear appropriate PPE (See section 8). Do not mix with

other chemical products, except as indicated by the manufacturer. Do not get in eyes, on skin or clothing. Good housekeeping is important to prevent accumulation of dust.

7.2 Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep out of the reach of children. Keep container tightly closed and prevent exposure to humidity. Do not allow water to contact the product until time of use to preserve product utility.

SECTION VIII – EXPOSURE CONTROL MEASURES / PERSONAL PROTECTION

8.1 Components with limit values that require monitoring at the workplace:

Hazardous Components	CAS No.	PEL (OSHA) mg/M ³	TLV (ACGIH) mg/M ³
Silica Sand, crystalline	14808-60-7	0.1	0.025 (resp)
Portland Cement	65997-15-1	5 (resp) 15 (total)	10 (resp)
Lime	01305-62-0	5	5

8.2 Exposure Controls

Use ventilation adequate to keep exposures below recommended exposure limits.

8.3 General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

8.3a Personal protective equipment

Protection of hands:

Wear gloves of adequate length to offer appropriate skin protection from splashes. Nitrile, Butyl and PVC gloves have been found to offer adequate protection for incidental contact. Precautions must be observed because burns occur with little warning -- little heat is sensed.

Eye protection:

Wear approved eye protection (properly fitted dust- or splash-proof chemical safety glasses).

Respiratory protection:

A NIOSH-approved dust mask or filtering face piece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional, following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

General Information

Appearance	Form: Granular Solid Color: Gray to gray-brown colored Odor: None
pH-value at 20°C (68 °F):	13 (10%)
Boiling point/Boiling range:	Not applicable
Flash point:	Not applicable
Auto igniting:	Product is not self-igniting
Vapor pressure at 21°C (70°F)	Not available
Density at 25°C (77 °F):	2.6 to 3.15
Solubility in / Miscibility with Water:	Insoluble
VOC content:	0 g/L VOC

SECTION X – STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal storage conditions. Keep in dry storage.

10.3 Possibility of hazardous reaction

No dangerous reaction known under conditions of normal use.

10.4 Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications.

10.5 Incompatible materials

Contact of silica with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, or oxygen difluoride may cause fires

10.6 Hazardous Decomposition or By-products

Silica will dissolve in Hydrofluoric Acid and produce a corrosive gas – silicon tetrafluoride.

SECTION XI – TOXICOLOGICAL INFORMATION

11.1 Exposure Routes: Skin contact, skin adsorption, eye contact, inhalation, or ingestion.

11.2 Symptoms related to physical/chemical/toxicological characteristics:

Inhalation: May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

Skin contact: Causes severe skin burns. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause sensitization by skin contact. Product becomes extremely alkaline when exposed to moisture, and can cause alkali burns and affect the mucous membranes.

Eye Contact: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Ingestion: Harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

11.3 Delayed, immediate and chronic effects of short-term and long-term exposure

Short Term

Skin Corrosion/Irritation: Causes severe skin burns.

Serious Eye Damage/Irritation: Causes severe eye damage.

Respiratory Sensitization: Not available

Skin Sensitization: May cause an allergic skin reaction.

Specific Target Organ Toxicity-Single Exposure: (Category 3) May cause respiratory irritation.

Aspiration Hazard: Not available

Long Term

Carcinogenicity: May cause cancer through chronic inhalation.

Germ Cell Mutagenicity: Not available

Reproductive Toxicity: Not available

Specific Target Organ Toxicity- Repeated Exposure: (Category 1) Causes damage to lungs through prolonged/repeated exposure

Synergistic/Antagonistic Effects: Not available.

SECTION XII – ECOLOGICAL INFORMATION

12.1 Ecotoxicity

May cause long-term adverse effects to the aquatic environment. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential:

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Other Adverse Effects

No further relevant information available.

SECTION XIII – DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Method

The packaging and material may be land filled; however, material should be covered to minimize generation of airborne dust. This product is not classified as a hazardous waste under the authority of the RCRA (40CFR 261) or CERCLA (40CFR 117&302). Disposal must be made in accordance with local, state and federal regulations.

13.2 Other disposal considerations

Uncleaned packaging recommendation: Disposal must be made in accordance with local, state and federal regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

SECTION XIV – TRANSPORT INFORMATION

	DOT (U.S.)	TDG (Canada)
UN-Number	Not Regulated	Not Regulated
UN proper shipping name	Not Regulated	Not Regulated
Transport Hazard Class(es)	Not Regulated	Not Regulated
Packing Group (if applicable)	Not Regulated	Not Regulated

14.1 Environmental hazards:

Not Available

14.2 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code

Not available

14.3 Special precautions for user

Do not handle until all safety precautions have been read and understood.

SECTION XV – OTHER REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislations specific for the chemical

Canada

WHMIS Classification: Considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the CPR.

15.2 US Federal Information

SARA 302/311/312/313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, 311, 312 or 313.

RCRA: Crystalline silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR §261 et seq.

CERCLA: Crystalline silica (quartz) is not classified as a hazardous substance under regulations of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 40 CFR §302.

Emergency Planning and Community Right to Know Act (SARA Title III): Crystalline silica (quartz) is not an extremely hazardous substance under Section 302 and is not a toxic chemical subject to the requirements of Section 313.

FDA: Silica is included in the list of substances that may be included in coatings used in food contact surfaces, 21 CFR §175.300(b)(3)(xxvi).

NTP: Respirable crystalline silica, primarily quartz dusts occurring in industrial and occupational settings, is classified as Known to be a Human Carcinogen.

OSHA Carcinogen: Crystalline silica (quartz) is not listed.

15.3 State Right to Know Laws

California Prop. 65 Components



WARNING: This product can expose you to chemicals including crystalline silica which is known to the State of California to cause cancer and hexavalent chromium compounds which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Inhalation Reference Exposure Level (REL): California established a chronic REL of 3 µg for silica (crystalline, respirable). A chronic REL is an airborne level of a substance at or below which no adverse health effects are anticipated in individuals indefinitely exposed to the substance at that level.

Massachusetts Toxic Use Reduction Act: Silica, crystalline (respirable size, <10 microns) is "toxic" for purposes of the Massachusetts Toxic Use Reduction Act.

15.4 Global Inventories

DSL All components of this product are on the Canadian DSL list.

TSCA No.: Crystalline silica (quartz) appears on the EPA TSCA inventory under the CAS No. 14808-60-7. All constituents are listed in the TSCA inventory.

SECTION XVI – OTHER INFORMATION

Last Updated: May 31, 2018

NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

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End of SDS