



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

1.1 Product identifier

Product Name • **LP Engineered Wood Products with Fire-Retardant Coating**

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

Relevant identified use(s) • Various engineered wood building products with fire-retardant coatings for wall, roof, or floor components; structural or nonstructural construction components; industrial applications.
This SDS applies to all of LP's products with fire retardant coatings.

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

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

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

2.1 Classification of the substance or mixture

CLP • Skin Sensitization 1 - H317
Respiratory Sensitization 1 - H334
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335
Specific Target Organ Toxicity Repeated Exposure 1: Respiratory Tract - H372
Carcinogenicity 1A - H350

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.
 - H 372 / 373: May cause damage to lungs through prolonged or repeated exposure via inhalation

Precautionary statements

- Prevention**
- P202 - Do not handle until all safety precautions have been read and understood.
 - P260 - Do not breathe dust
 - P271 - Use (saw, sand, etc.) only outdoors or in a well-ventilated area.
 - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 - P284/P285 - In case of inadequate ventilation wear respiratory protection.

- Response**
- P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 - P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
 - P302+P352 - IF ON SKIN: Wash with plenty of water.
 - P362+P364 - Take off contaminated clothing and wash it before reuse.
 - P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 - 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.

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.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

- OSHA HCS 2012**
- Skin Sensitization 1
 - Respiratory Sensitization 1
 - Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
 - Specific Target Organ Toxicity Repeated Exposure 1: Respiratory Tract
 - 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 • Do not handle until all safety precautions have been read and understood.
Avoid breathing dust.
Use (saw, sand, etc.) 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: If breathing is difficult, 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.
If on skin: Wash with plenty of water.
Wash contaminated clothing before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
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 • Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to: WHMIS 2015

2.1 Classification of the substance or mixture

WHMIS 2015 • Not classified

2.2 Label elements

WHMIS 2015

Hazard statements • No label element(s) required

Precautionary statements

2.3 Other hazards

WHMIS 2015 • 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.

2.4 Other information

- This product is not hazardous in the form in which it is shipped by the manufacturer but health and/or physical hazards may be created by downstream activities (e.g., cutting, sanding, milling) that reduce its particle size. Those hazards are described above.
- This may be a treated engineered wood article which incorporates a biocidal product to control wood destroying organisms. Active Ingredient: Boric Acid.
When working with this product, the following is recommended:
Use (saw, sand, etc.) only outdoors in a well-ventilated area. Avoid breathing dust. In case of inadequate ventilation, wear respiratory protection. Wear appropriate PPE (gloves, eye, and face protection). 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. Store in a protected location. Dispose of waste material in accordance with local, regional and national regulations.

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 (may include fiber, strands, or veneer)	NDA	40% TO 90%	EU CLP: Skin Sens. 1, H317; Resp. Sens. 1, H334; STOT SE 3: Resp. Irrit., H335; Carc. 1A, H350 OSHA HCS 2012: Skin Sens. 1; Resp. Sens. 1; STOT SE 3: Resp. Irrit.; Carc. 1A; Comb. Dust WHMIS 2015: Skin Sens. 1; Resp. Sens. 1; STOT SE 3: Resp. Irrit.; Carc. 1A; Comb. Dust
Resin (one or more of these resins may be incorporated in product)			
..... Phenol-Formaldehyde Resin Solids	NDA	< 10%	EU CLP: Exposure limits (member states) OSHA HCS 2012: Not relevant WHMIS 2015: Not relevant
..... Polyurea/Polyurethane Solids ⁽¹⁾	NDA	< 9%	EU CLP: Not relevant OSHA HCS 2012: Not relevant WHMIS 2015: Not relevant
..... Phenol-Resorcinol-Formaldehyde Resin Solids (may be present in I-Joist products)	CAS:25036-13-9	< 2%	EU CLP: Not relevant OSHA HCS 2012: Not relevant WHMIS 2015: Not relevant
..... Melamine-Formaldehyde Resin Solids (may be present in I-Joist products)	CAS:9003-35-4	< 14%	EU CLP: Not relevant OSHA HCS 2012: Not relevant WHMIS 2015: Not relevant
Wax (paraffin, slack, emulsion)	CAS:8002-74-2 EC Number:232-315-6	< 2%	EU CLP: Exposure limits OSHA HCS 2012: Exposure limits WHMIS 2015: Exposure limits
Overlays or laminates (paper / foil etc)	NDA	< 5%	EU CLP: Not relevant OSHA HCS 2012: Not relevant WHMIS 2015: Not relevant
Paints / Sealers / Glues Adhesives / Release Agents	NDA	< 2%	EU CLP: Not relevant OSHA HCS 2012: Not relevant WHMIS 2015: Not relevant
Boric Acid, Zinc Salt (may be present in treated panel, siding, trim, laminated strand lumber (LSL), or I-Joist products)	CAS:138265-88-0	< 3%	EU CLP: Exposure limits OSHA HCS 2012: Exposure limits WHMIS 2015: Exposure limits
Fire-retardant coating			
..... Crystalline silica	CAS:14808-60-7 EC Number:238-878-4	< 8%	EU CLP: STOT SE 3: Resp. Irrit.; STOT RE 1, 372; Resp. Irrit., H335; Carc. 1A, H350 OSHA HCS 2012: STOT SE 3: Resp. Irrit.; STOT RE 1, 372; Resp. Irrit., H335; Carc. 1A, H350 WHMIS 2015: Exposure limits
..... Fiberglass Strands or Veil	NDA	< 7%	EU CLP: Not relevant OSHA HCS 2012: Not relevant WHMIS 2015: Not relevant
..... Silica, amorphous	CAS:7631-86-9 EC Number:231-545-4	< 0.11%	EU CLP: Exposure limits OSHA HCS 2012: Exposure limits WHMIS 2015: Exposure limits
..... Titanium dioxide	CAS:13463-67-7 EC Number:236-675-5	< 0.1%	EU CLP: Exposure limits OSHA HCS 2012: Exposure limits WHMIS 2015: Exposure limits

Aluminum hydroxide (Al(OH) ₃)	CAS:21645-51-2 EC Number:244-492-7	< 0.09%	EU CLP: Exposure limits OSHA HCS 2012: Exposure limits WHMIS 2015: Exposure limits
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(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.

Key to abbreviations

NDA = No Data Available

Section 4 - First Aid Measures

4.1 Description of first aid measures

- Inhalation** • 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** • In case of contact with substance, wash with plenty of soap and water. If irritation develops and persists, get medical attention.
- Eye** • 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** • 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** • 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 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
Aluminum hydroxide (Al(OH) ₃)	TWAs	1 mg/m ³ TWA (respirable particulate matter) <i>as Aluminum insoluble compounds</i>	Not established	Not established	1.0 mg/m ³ TWA (respirable) <i>as Aluminum insoluble compounds</i>	1 mg/m ³ TWA (respirable particulate matter) <i>as Aluminum insoluble compounds</i>
Titanium dioxide (13463-67-7)	TWAs	10 mg/m ³ TWA	10 mg/m ³ TWA (containing no asbestos and <1% crystalline silica, inhalable dust)	10 mg/m ³ TWA	10 mg/m ³ TWA (total dust); 3 mg/m ³ TWA (respirable fraction)	10 mg/m ³ TWA
Silica, amorphous (7631-86-9)	TWAs	Not established	2 mg/m ³ TWA (respirable dust, listed under Fumed silica)	Not established	Not established	Not established
Wax (paraffin, slack, emulsion) (8002-74-2)	TWAs	2 mg/m ³ TWA (fume)	2 mg/m ³ TWA (fume)	2 mg/m ³ TWA (fume)	2 mg/m ³ TWA (fume)	2 mg/m ³ TWA (fume)
Boric Acid, Zinc Salt	TWAs	10 mg/m ³ TWA (inhalable particles,	Not established	10 mg/m ³ TWA (total); 3 mg/m ³ TWA	10 mg/m ³ TWA (nuisance dust, total)	10 mg/m ³ TWA (inhalable particles,

		recommended); 3 mg/m ³ TWA (respirable particles, recommended) <i>as Particulates not otherwise classified (PNOC)</i>		(respirable) <i>as Particulates not otherwise classified (PNOC)</i>	dust); 3 mg/m ³ TWA (nuisance dust, respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	recommended); 3 mg/m ³ TWA (respirable particles, recommended) <i>as Particulates not otherwise classified (PNOC)</i>
Crystalline silica (14808-60-7)	TWAs	0.025 mg/m ³ TWA (respirable particulate matter)	0.1 mg/m ³ TWA (respirable dust)	0.025 mg/m ³ TWA (respirable particulate)	0.025 mg/m ³ TWA (respirable)	0.025 mg/m ³ TWA (respirable particulate matter)
Wood (may include fiber, strands, or veneer)	TWAs	10 mg/m ³ TWA (inhalable particles, recommended); 3 mg/m ³ TWA (respirable particles, recommended) <i>as Particulates not otherwise classified (PNOC)</i>	Not established	10 mg/m ³ TWA (total); 3 mg/m ³ TWA (respirable) <i>as Particulates not otherwise classified (PNOC)</i> 5 mg/m ³ TWA (total) <i>as Wood dust, all soft and hard woods</i>	10 mg/m ³ TWA (nuisance dust, total dust); 3 mg/m ³ TWA (nuisance dust, respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m ³ TWA (inhalable particles, recommended); 3 mg/m ³ TWA (respirable particles, recommended) <i>as Particulates not otherwise classified (PNOC)</i>

Exposure Limits/Guidelines (Con't.)

	Result	Canada New Brunswick	Canada Northwest Territories	Canada Nova Scotia	Canada Nunavut	Canada Ontario
Aluminum hydroxide (Al(OH) ₃)	TWAs	Not established	Not established	1 mg/m ³ TWA (respirable particulate matter) <i>as Aluminum insoluble compounds</i>	Not established	1 mg/m ³ TWA (respirable) <i>as Aluminum insoluble compounds</i>
Titanium dioxide (13463-67-7)	TWAs	10 mg/m ³ TWA	10 mg/m ³ TWA	10 mg/m ³ TWA	10 mg/m ³ TWA	10 mg/m ³ TWA
	STELs	Not established	20 mg/m ³ STEL	Not established	20 mg/m ³ STEL	Not established
Wax (paraffin, slack, emulsion) (8002-74-2)	TWAs	2 mg/m ³ TWA (fume)	2 mg/m ³ TWA	2 mg/m ³ TWA (fume)	2 mg/m ³ TWA	2 mg/m ³ TWA (fume)
	STELs	Not established	4 mg/m ³ STEL	Not established	4 mg/m ³ STEL	Not established
Boric Acid, Zinc Salt	TWAs	3 mg/m ³ TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction); 10 mg/m ³ TWA (particulate matter containing no Asbestos and <1% Crystalline silica, inhalable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m ³ TWA (insoluble or poorly soluble, inhalable fraction); 3 mg/m ³ TWA (insoluble or poorly soluble, respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m ³ TWA (inhalable particles, recommended); 3 mg/m ³ TWA (respirable particles, recommended) <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m ³ TWA (insoluble or poorly soluble, inhalable fraction); 3 mg/m ³ TWA (insoluble or poorly soluble, respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m ³ TWA (inhalable); 3 mg/m ³ TWA (respirable) <i>as Particulates not otherwise classified (PNOC)</i>
	STELs	Not established	20 mg/m ³ STEL (insoluble or poorly soluble, inhalable fraction); 6 mg/m ³ STEL (insoluble or poorly soluble, respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	Not established	20 mg/m ³ STEL (insoluble or poorly soluble, inhalable fraction); 6 mg/m ³ STEL (insoluble or poorly soluble, respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	Not established

Crystalline silica (14808-60-7)	TWAs	0.1 mg/m3 TWA (respirable fraction)	0.05 mg/m3 TWA (respirable fraction, listed under Silica - crystalline)	0.025 mg/m3 TWA (respirable particulate matter)	0.05 mg/m3 TWA (respirable fraction, listed under Silica - crystalline)	0.10 mg/m3 TWA (designated substances regulation, respirable, listed under Silica, crystalline)
Wood (may include fiber, strands, or veneer)	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>	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>	10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended) <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>	10 mg/m3 TWA (inhalable); 3 mg/m3 TWA (respirable) <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	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

Exposure Limits/Guidelines (Con't.)

	Result	Canada Quebec	Canada Saskatchewan	Canada Yukon	Chile	China
Titanium dioxide (13463-67-7)	STELs	Not established	20 mg/m3 STEL	20 mg/m3 STEL (as Ti)	Not established	16 mg/m3 STEL (total dust)
	TWAs	10 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, total dust)	10 mg/m3 TWA	30 mppcf TWA (as Ti); 10 mg/m3 TWA (as Ti)	Not established	8 mg/m3 TWA (total dust)
Silica, amorphous (7631-86-9)	TWAs	Not established	Not established	300 particle/mL TWA (as measured by Konimeter instrumentation, listed under Silica); 20 mppcf TWA (as measured by Impinger instrumentation, listed under Silica); 2 mg/m3 TWA (respirable mass, listed under Silica)	0.16 mg/m3 TWA LPP (fume, respirable fraction)	Not established
Wax (paraffin, slack, emulsion) (8002-74-2)	STELs	Not established	4 mg/m3 STEL	6 mg/m3 STEL (fume)	Not established	4 mg/m3 STEL (fume)
	TWAs	2 mg/m3 TWAEV (fume)	2 mg/m3 TWA	2 mg/m3 TWA (fume)	1.6 mg/m3 TWA LPP (solid, fume)	2 mg/m3 TWA (fume)
Boric Acid, Zinc Salt	STELs	Not established	20 mg/m3 STEL (insoluble or poorly soluble, inhalable fraction); 6 mg/m3 STEL (insoluble or poorly soluble,	Not established	Not established	16 mg/m3 STEL (free SiO2 <10%; except asbestos and toxic substances; use PC-STEL of silica When free

			respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>			SiO ₂ >10%, total) <i>as Particulates not otherwise classified (PNOC)</i>
	TWAs	10 mg/m ³ 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/m ³ TWA (insoluble or poorly soluble, inhalable fraction); 3 mg/m ³ TWA (insoluble or poorly soluble, respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	Not established	Not established	8 mg/m ³ TWA (free SiO ₂ <10%, except asbestos and toxic substances. Use PC-TWA of silica When free SiO ₂ >10%, total) <i>as Particulates not otherwise classified (PNOC)</i>
Crystalline silica (14808-60-7)	STELs	Not established	Not established	Not established	Not established	2 mg/m ³ STEL (containing 10 - 50% free SiO ₂ , total dust); 1.4 mg/m ³ STEL (containing 50 - 80% free SiO ₂ , total dust); 1 mg/m ³ STEL (containing >80% free SiO ₂ , total dust); 1.4 mg/m ³ STEL (containing 10 - 50% free SiO ₂ , respirable dust); 0.6 mg/m ³ STEL (containing 50 - 80% free SiO ₂ , respirable dust); 0.4 mg/m ³ STEL (containing >80% free SiO ₂ , respirable dust)
	TWAs	0.1 mg/m ³ TWAEV (respirable dust)	0.05 mg/m ³ TWA (respirable fraction, listed under Silica - crystalline (Trydimite removed))	300 particle/mL TWA (listed under Silica - Quartz, crystalline)	0.08 mg/m ³ TWA LPP (respirable fraction)	0.7 mg/m ³ TWA (containing 50 - 80% free SiO ₂ , total dust); 0.3 mg/m ³ TWA (containing 50 - 80% free SiO ₂ , respirable dust); 1 mg/m ³ TWA (containing 10 - 50% free SiO ₂ , total dust); 0.7 mg/m ³ TWA (containing 10 - 50% free SiO ₂ , respirable dust); 0.5 mg/m ³ TWA (containing >80% free SiO ₂ , total dust); 0.2 mg/m ³ TWA (containing >80% free SiO ₂ , respirable dust)
Wood (may include fiber, strands, or veneer)	STELs	Not established	20 mg/m ³ STEL (insoluble or poorly soluble, inhalable fraction); 6 mg/m ³ STEL (insoluble or poorly soluble, respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m ³ STEL (non-allergenic); 5 mg/m ³ STEL (allergenic, including cedar, mahogany, teak) <i>as Wood dust, all soft and hard woods</i>	Not established	16 mg/m ³ STEL (free SiO ₂ <10%; except asbestos and toxic substances; use PC-STEL of silica When free SiO ₂ >10%, total) <i>as Particulates not otherwise classified (PNOC)</i> 6 mg/m ³ STEL (total)

						as Wood dust, all soft and hard woods
	TWAs	10 mg/m3 TWAEV (including dust, inert or nuisance particulates; containing no Asbestos and <1% Crystalline silica, total dust) as Particulates not otherwise classified (PNOC) 5 mg/m3 TWAEV (except red cedar, containing no Asbestos and <1% Crystalline silica, total dust) as Wood dust, all soft and hard woods	10 mg/m3 TWA (insoluble or poorly soluble, inhalable fraction); 3 mg/m3 TWA (insoluble or poorly soluble, respirable fraction) as Particulates not otherwise classified (PNOC)	5 mg/m3 TWA (non-allergenic); 2.5 mg/m3 TWA (allergenic, including cedar, mahogany, teak) as Wood dust, all soft and hard woods	Not established	8 mg/m3 TWA (free SiO2 <10%, except asbestos and toxic substances. Use PC-TWA of silica When free SiO2 >10%, total) as Particulates not otherwise classified (PNOC) 3 mg/m3 TWA (total) as Wood dust, all soft and hard woods

Exposure Limits/Guidelines (Con't.)

	Result	Czech Republic	France	Japan	Korea	Mexico
Titanium dioxide (13463-67-7)	TWAs	Not established	10 mg/m3 TWA [VME] (as Ti)	0.3 mg/m3 OEL	10 mg/m3 TWA (Serial No. 461)	10 mg/m3 TWA VLE-PPT (as Ti)
	STELs	Not established	Not established	Not established	Not established	20 mg/m3 STEL [PPT-CT] (as Ti)
Silica, amorphous (7631-86-9)	TWAs	0.1 mg/m3 TWA (respirable fraction); 4.0 mg/m3 TWA (as amorphous SiO2)	Not established	Not established	Not established	Not established
Wax (paraffin, slack, emulsion) (8002-74-2)	STELs	Not established	Not established	Not established	Not established	6 mg/m3 STEL [PPT-CT] (fume)
	TWAs	Not established	2 mg/m3 TWA [VME] (fume)	Not established	2 mg/m3 TWA (fume, Serial No. 004)	2 mg/m3 TWA VLE-PPT (fume)
Boric Acid, Zinc Salt	TWAs	Not established	10 mg/m3 TWA [VME] (restrictive limit); 5 mg/m3 TWA [VME] (restrictive limit) as Particulates not otherwise classified (PNOC)	Not established	10 mg/m3 TWA (no more than 1% crystalline silica, Serial No. 717) as Particulates not otherwise classified (PNOC)	Not established
Crystalline silica (14808-60-7)	TWAs	0.1 mg/m3 TWA (dust)	0.1 mg/m3 TWA [VME] (restrictive limit, alveolar fraction)	Not established	0.05 mg/m3 TWA (respirable fraction, Serial No. 264)	0.1 mg/m3 TWA VLE-PPT (respirable fraction)
Phenol-Formaldehyde Resin Solids (9003-35-4)	TWAs	5.0 mg/m3 TWA (dust)	Not established	Not established	Not established	Not established
Wood (may include fiber, strands, or veneer)	TWAs	Not established	10 mg/m3 TWA [VME] (restrictive limit); 5 mg/m3 TWA [VME] (restrictive limit) as Particulates not otherwise classified (PNOC)	Not established	10 mg/m3 TWA (no more than 1% crystalline silica, Serial No. 717) as Particulates not otherwise classified (PNOC)	Not established

			1 mg/m3 TWA [VME] (restrictive limit) <i>as Wood dust, all soft and hard woods</i>			
Exposure Limits/Guidelines (Con't.)						
	Result	Netherlands	New Zealand	NIOSH	OSHA	Russia
Aluminum hydroxide (Al(OH) ₃) (21645-51-2)	TWAs	Not established	Not established	Not established	Not established	6 mg/m3 TWA (aerosol)
Titanium dioxide (13463-67-7)	TWAs	Not established	10 mg/m3 TWA	Not established	15 mg/m3 TWA (total dust)	10 mg/m3 TWA (aerosol)
Silica, amorphous (7631-86-9)	TWAs	Not established	Not established	6 mg/m3 TWA	Not established	Not established
Wax (paraffin, slack, emulsion) (8002-74-2)	TWAs	Not established	2 mg/m3 TWA (fume)	2 mg/m3 TWA (fume)	Not established	Not established
Boric Acid, Zinc Salt	TWAs	Not established	3 mg/m3 TWA (respirable dust); 10 mg/m3 TWA <i>as Particulates not otherwise classified (PNOC)</i>	Not established	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	Not established
Crystalline silica (14808-60-7)	STELs	Not established	Not established	Not established	Not established	3 mg/m3 STEL (glass, disintegration aerosol, total mass of aerosols, listed under Silicon dioxide amorphous and vitreous); 3 mg/m3 STEL (regulated under Quartz, total mass of aerosols, listed under Silicon dioxide crystalline)
	TWAs	0.075 mg/m3 TWA (respirable dust, listed under Silicon dioxide)	0.1 mg/m3 TWA (respirable dust)	0.05 mg/m3 TWA (respirable dust)	50 µg/m3 TWA (listed under Respirable crystalline silica)	1 mg/m3 TWA (glass, disintegration aerosol, total mass of aerosols, listed under Silicon dioxide amorphous and vitreous); 1 mg/m3 TWA (total mass of aerosols, listed under Crystalline silicon dioxide)
Phenol-Formaldehyde Resin Solids (9003-35-4)	TWAs	Not established	Not established	Not established	Not established	6 mg/m3 TWA (aerosol)
Wood (may include fiber, strands, or veneer)	TWAs	Not established	3 mg/m3 TWA (respirable dust); 10 mg/m3 TWA <i>as Particulates not otherwise classified (PNOC)</i>	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 Limits/Guidelines (Con't.)						
	Result	United Kingdom				
Titanium dioxide (13463-67-7)	STELs	30 mg/m3 STEL (calculated, total inhalable); 12 mg/m3 STEL (calculated, respirable)				

	TWAs	10 mg/m3 TWA (total inhalable); 4 mg/m3 TWA (respirable)
Silica, amorphous (7631-86-9)	STELs	18 mg/m3 STEL (calculated, inhalable dust); 7.2 mg/m3 STEL (calculated, respirable dust)
	TWAs	6 mg/m3 TWA (inhalable dust); 2.4 mg/m3 TWA (respirable dust)
Wax (paraffin, slack, emulsion) (8002-74-2)	STELs	6 mg/m3 STEL (fume)
	TWAs	2 mg/m3 TWA (fume)

Exposure Control Notations

Japan

- Wood (may include fiber, strands, or veneer) as Wood dust, all soft and hard woods: **Carcinogens:** (Group 1 - Carcinogenic to Humans)
- Titanium dioxide (13463-67-7): **Carcinogens:** (Group 2B - Possibly Carcinogenic to Humans)

Mexico

- Titanium dioxide (13463-67-7): **Carcinogens:** (A4 - Not classifiable as a human carcinogen)

Russia

- Wood (may include fiber, strands, or veneer) as Wood dust, all soft and hard woods: **Sensitizers:** (Allergenic substance (containing <2% Silicon dioxide, listed under Animal and plant origin dust))

Chile

- Crystalline silica (14808-60-7): **Carcinogens:** (A1 - Confirmed Human Carcinogen)

ACGIH

- Aluminum hydroxide (Al(OH)₃) as Aluminum insoluble compounds: **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
- Crystalline silica (14808-60-7): **Carcinogens:** (A2 - Suspected Human Carcinogen)
- Titanium dioxide (13463-67-7): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

Exposure Limits Supplemental

OSHA

- Wood (may include fiber, strands, or veneer) as Particulates not otherwise classified (PNOC): **Mineral Dusts:** (15 mppcf TWA (respirable fraction); 5 mg/m3 TWA (respirable fraction); 50 mppcf TWA (total dust); 15 mg/m3 TWA (total dust))
- Boric Acid, Zinc Salt as Particulates not otherwise classified (PNOC): **Mineral Dusts:** (15 mppcf TWA (respirable fraction); 5 mg/m3 TWA (respirable fraction); 50 mppcf TWA (total dust); 15 mg/m3 TWA (total dust))
- Crystalline silica (14808-60-7): **Mineral Dusts:** ((250)/(%)SiO₂ + 5) mppcf TWA, respirable fraction; (10)/(%)SiO₂ + 2) mg/m3 TWA, respirable fraction)
- Silica, amorphous (7631-86-9): **Mineral Dusts:** (20 mppcf TWA; (80)/(%) SiO₂) mg/m3 TWA)

ACGIH

- Wax (paraffin, slack, emulsion) (8002-74-2): **TLV Basis - Critical Effects:** (nausea (fume); upper respiratory tract irritation (fume))
- Aluminum hydroxide (Al(OH)₃) as Aluminum insoluble compounds: **TLV Basis - Critical Effects:** (pneumoconiosis; lower respiratory tract irritation; neurotoxicity)
- Crystalline silica (14808-60-7): **TLV Basis - Critical Effects:** (lung cancer; pulmonary fibrosis)
- Titanium dioxide (13463-67-7): **TLV Basis - Critical Effects:** (lower respiratory tract irritation)

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
MSHA = Mine Safety and Health Administration
NIOSH = National Institute of Occupational Safety and Health

STEL = Short Term Exposure Limits are based on 15-minute exposures
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures
LMPE = Maximum permissible exposure limit (Spanish)

Section 9 - Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Wood product with fiberglass and cementitious coating
Color	Data lacking	Odor	Data lacking
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Not Applicable	Melting Point/Freezing Point	Not Applicable
Decomposition Temperature	Not Applicable	pH	Not Applicable
Specific Gravity/Relative Density	Data lacking	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	Auto Ignition	Data lacking
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 WHMIS 2015•Data lacking
Skin corrosion/Irritation	EU/CLP•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Serious eye damage/Irritation	EU/CLP•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Skin sensitization	EU/CLP•Skin Sensitizer 1 OSHA HCS 2012•Skin Sensitizer 1 WHMIS 2015•Data lacking
Respiratory sensitization	EU/CLP•Respiratory Sensitizer 1 OSHA HCS 2012•Respiratory Sensitizer 1 WHMIS 2015•Data lacking
Aspiration Hazard	EU/CLP•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Carcinogenicity	EU/CLP•Carcinogenicity 1 OSHA HCS 2012•Carcinogenicity 1A WHMIS 2015•Data lacking
Germ Cell Mutagenicity	EU/CLP•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Toxicity for Reproduction	EU/CLP•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•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 WHMIS 2015•Data lacking
STOT-RE	EU/CLP• Specific Target Organ Toxicity Repeated Exposure 1: Respiratory Tract OSHA HCS 2012• Specific Target Organ Toxicity Repeated Exposure 1: Respiratory Tract WHMIS 2015•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."

Carcinogenic Effects			
	CAS	IARC	NTP
Titanium dioxide	13463-67-7	Group 2B-Possible Carcinogen	Evidence of Carcinogenicity
Crystalline silica	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen
Wood Dust	---	Group 1-Carcinogenic	Known Human Carcinogen

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	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
TDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IMO/IMDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IATA/ICAO	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA

14.6 Special precautions for user • None specified.

14.7 Transport in bulk according to Annex II of Marpol 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
Aluminum hydroxide (Al(OH) ₃)	21645-51-2	No	No	No
Crystalline silica	14808-60-7	Yes	Yes	Yes
Boric Acid, Zinc Salt	138265-88-0	No	No	No
Melamine-Formaldehyde Resin Solids	25036-13-9	No	No	No
Wax (paraffin, slack, emulsion)	8002-74-2	Yes	Yes	Yes
Phenol-Formaldehyde Resin Solids	9003-35-4	No	No	No
Silica, amorphous	7631-86-9	Yes	Yes	Yes
Titanium dioxide	13463-67-7	Yes	Yes	Yes
Wood (may include fiber, strands, or veneer)	NDA	No	Yes	No

Inventory						
Component	CAS	Australia AICS	Canada DSL	Canada NDSL	China	EU EINECS
Aluminum hydroxide (Al(OH) ₃)	21645-51-2	Yes	Yes	No	Yes	Yes
Crystalline silica	14808-60-7	Yes	Yes	No	Yes	Yes

Boric Acid, Zinc Salt	138265-88-0	No	No	No	Yes	No
Melamine-Formaldehyde Resin Solids	25036-13-9	Yes	Yes	No	Yes	No
Wax (paraffin, slack, emulsion)	8002-74-2	Yes	Yes	No	Yes	Yes
Phenol-Formaldehyde Resin Solids	9003-35-4	Yes	Yes	No	Yes	No
Silica, amorphous	7631-86-9	Yes	Yes	No	Yes	Yes
Titanium dioxide	13463-67-7	Yes	Yes	No	Yes	Yes
Wood (may include fiber, strands, or veneer)	NDA	No	No	No	No	No

Inventory (Con't.)

Component	CAS	EU ELNICS	Japan ENCS	Korea KECL	New Zealand	TSCA
Aluminum hydroxide (Al(OH) ₃)	21645-51-2	No	Yes	Yes	Yes	Yes
Crystalline silica	14808-60-7	No	Yes	Yes	Yes	Yes
Boric Acid, Zinc Salt	138265-88-0	No	No	No	Yes	No
Melamine-Formaldehyde Resin Solids	25036-13-9	No	Yes	Yes	Yes	Yes
Wax (paraffin, slack, emulsion)	8002-74-2	No	Yes	Yes	Yes	Yes
Phenol-Formaldehyde Resin Solids	9003-35-4	No	Yes	Yes	Yes	Yes
Silica, amorphous	7631-86-9	No	Yes	Yes	Yes	Yes
Titanium dioxide	13463-67-7	No	Yes	Yes	Yes	Yes
Wood (may include fiber, strands, or veneer)	NDA	No	No	No	No	No

Australia

Labor

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

No ingredients subject to this requirement.

Australia - High Volume Industrial Chemicals List

No ingredients subject to this requirement.

Australia - List of Designated Hazardous Substances - Classification

•Boric Acid, Zinc Salt	138265-88-0	Repr.Cat.2 R60, R61
•Crystalline silica	14808-60-7	Self classification required
•Wax (paraffin, slack, emulsion)	8002-74-2	Self classification required (fume)

No other ingredients subject to this requirement.

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

No ingredients subject to this requirement.

Australia - Work Health and Safety Regulations - Threshold Quantity at Major Hazard Facilities (Table 15.2)

No ingredients subject to this requirement.

Australia - Western Australia - Hazardous Substances Prohibited for Specified Uses

No ingredients subject to this requirement.

Australia - Western Australia - Hazardous Substances Requiring Health Surveillance

No ingredients subject to this requirement.

Environment

Australia - National Pollutant Inventory (NPI) Substance List

No ingredients subject to this requirement.

Australia - Ozone Protection Act - Scheduled Substances

No ingredients subject to this requirement.

Australia - Priority Existing Chemical Program

No ingredients subject to this requirement.

Other

The Australia Group - Export Control List - Chemical Weapons Precursors

No ingredients subject to this requirement.

Canada

Labor

Canada - WHMIS 1988 - Classifications of Substances

•Aluminum hydroxide (Al(OH)3)	21645-51-2	Uncontrolled product according to WHMIS classification criteria D2A (In certain cases, this classification does not apply. For more information, consult the section
•Titanium dioxide	13463-67-7	Substance Specific Issues - Titanium dioxide, mixture containing on Health Canada's WHMIS Division website.)
•Silica, amorphous	7631-86-9	Uncontrolled product according to WHMIS classification criteria D2A (In certain cases, this classification does not apply. For more information, consult the section
•Crystalline silica	14808-60-7	Substance Specific Issues - Silica, crystalline, encapsulated on Health Canada's WHMIS Division website.)
•Wax (paraffin, slack, emulsion)	8002-74-2	Uncontrolled product according to WHMIS classification criteria

No other ingredients subject to this requirement.

Canada - WHMIS 1988 - Ingredient Disclosure List

•Silica, amorphous	7631-86-9	1 %
•Crystalline silica	14808-60-7	1 %

No other ingredients subject to this requirement.

Environment

Canada - CEPA - Priority Substances List

No ingredients subject to this requirement.

Canada - CEPA - Schedule I - List of Toxic Substances

No ingredients subject to this requirement.

Canada - CEPA - Schedule III Part 1 - Export Control List - Prohibited Substances

No ingredients subject to this requirement.

Canada - CEPA - Schedule III Part 2 - Export Control List - Substances Subject to Notification or Consent

No ingredients subject to this requirement.

Canada - CEPA - Schedule III Part 3 - Export Control List - Restricted Substances

No ingredients subject to this requirement.

Canada Alberta

Environment

Canada - Alberta - Ambient Air Quality Objectives

No ingredients subject to this requirement.

Canada - Alberta - Ambient Air Quality Guidelines

No ingredients subject to this requirement.

Canada - Alberta - Water Quality Guidelines for Freshwater Aquatic Life - Acute

No ingredients subject to this requirement.

Canada - Alberta - Water Quality Guidelines for Freshwater Aquatic Life - Chronic

No ingredients subject to this requirement.

Canada British Columbia

Environment

Canada - British Columbia - Ozone Depleting Substances
No ingredients subject to this requirement.

Canada Manitoba

Environment

Canada - Manitoba - Ozone Depleting Substances and Other Halocarbons - Class 1
No ingredients subject to this requirement.
Canada - Manitoba - Ozone Depleting Substances and Other Halocarbons - Class 2
No ingredients subject to this requirement.

Canada New Foundland

Environment

Canada - Newfoundland & Labrador - Halocarbon Regulations - Schedule A
No ingredients subject to this requirement.
Canada - Newfoundland & Labrador - Halocarbon Regulations - Schedule B
No ingredients subject to this requirement.
Canada - Newfoundland & Labrador - Halocarbon Regulations - Schedule C
No ingredients subject to this requirement.
Canada - Newfoundland & Labrador - Halocarbon Regulations - Schedule D
No ingredients subject to this requirement.
Canada - Newfoundland & Labrador - Halocarbon Regulations - Schedule E
No ingredients subject to this requirement.

Canada Northwest Territories

Other

Canada - Northwest Territories - Ozone Depleting Substances and Halocarbon Alternatives
No ingredients subject to this requirement.

Canada Nova Scotia

Environment

Canada - Nova Scotia - Ozone Layer Protection Regulations
No ingredients subject to this requirement.

Canada Ontario

Environment

Canada - Ontario - Drinking Water Standards - Aesthetic Objectives (AO)
No ingredients subject to this requirement.
Canada - Ontario - Drinking Water Standards - Operational Guidelines (OG)
No ingredients subject to this requirement.

Canada - Ontario - Ozone Depleting Substances and Other Halocarbons - Class 1 Substances
No ingredients subject to this requirement.
Canada - Ontario - Ozone Depleting Substances and Other Halocarbons - Class 2 Substances
No ingredients subject to this requirement.
Canada - Ontario - Ozone Depleting Substances and Other Halocarbons - Halocarbons
No ingredients subject to this requirement.

Canada Saskatchewan

Environment

Canada - Saskatchewan - Dangerous Goods - Acute Hazardous Substances
No ingredients subject to this requirement.
Canada - Saskatchewan - Dangerous Goods - Environmental Persistent or Chronic Hazardous Substances
No ingredients subject to this requirement.
Canada - Saskatchewan - Dangerous Goods - Industrial Hazardous Substances
No ingredients subject to this requirement.

Other

Canada - Substances Regulated Under F&DA That Were In Commerce Between 1/1/84 and 12/31/86
No ingredients subject to this requirement.

Canada Yukon

Environment

Canada - Yukon - Ozone Depleting Substances and Other Halocarbons
No ingredients subject to this requirement.

China

Other

China - Annex I & II - Controlled Chemicals Lists

No ingredients subject to this requirement.

China - Dangerous Goods List

No ingredients subject to this requirement.

Europe

Other

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

No ingredients subject to this requirement.

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

No ingredients subject to this requirement.

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

No ingredients subject to this requirement.

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

No ingredients subject to this requirement.

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

No ingredients subject to this requirement.

International

Environment

IPCS (International Programme on Chemical Safety) - List of Pesticide Data Sheets

No ingredients subject to this requirement.

Japan

Labor

Japan - ISHL Dangerous Substances

No ingredients subject to this requirement.

Japan - ISHL Designated Carcinogens

No ingredients subject to this requirement.

Japan - ISHL Prevention of Lead Poisoning

No ingredients subject to this requirement.

Japan - ISHL Mutagens - Existing Chemicals

No ingredients subject to this requirement.

Environment

Japan - Air Pollution Control Law - Emission Standards for Air Pollutants

No ingredients subject to this requirement.

Japan - Environmental Quality Standards - Annual Air Quality

No ingredients subject to this requirement.

Japan - Environmental Quality Standards - Daily Air Quality

No ingredients subject to this requirement.

Japan - Environmental Quality Standards - Soil Pollution

No ingredients subject to this requirement.

Japan - Environmental Quality Standards - Public Water/Groundwater - Monitored Substances and Guideline Values

No ingredients subject to this requirement.

Japan - Environmental Quality Standards - Public Water - Protection of Human Health

No ingredients subject to this requirement.

Inventory - Japan - Industrial Safety and Health Law Substances (ISHL)

No ingredients subject to this requirement.

Other

Japan - Drinking Water Quality Standards - Supplied Water Quality Standard Values

•Aluminum hydroxide (Al(OH)₃)

21645-51-2

0.2 mg/L (as Al, listed under Aluminum and its compounds)

No other ingredients subject to this requirement.

Japan - Chemical Substance Control Law (CSCL) - Examined Existing Chemical Substances

•Titanium dioxide

13463-67-7

Low bioconcentration ([1-558, 5-5225])

No other ingredients subject to this requirement.

Japan - Fire Service Law - Hazardous Materials

No ingredients subject to this requirement.

Japan - Harmful Substances in Household Products

No ingredients subject to this requirement.

Japan - Chemical Substance Control Law (CSCL) - Specified Chemical Substances

No ingredients subject to this requirement.

Korea

Labor

Korea - ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying

No ingredients subject to this requirement.

Korea - ISHA - Harmful Substances Requiring Permission

No ingredients subject to this requirement.

Environment

Korea - MOE - Toxic Chemicals Control Act (TCCA) - Observational Chemicals

No ingredients subject to this requirement.

Other

Korea - MOE - K-REACH/CCA - Prohibited Substances

No ingredients subject to this requirement.

Korea - MOE - K-REACH/CCA - Restricted Substances

No ingredients subject to this requirement.

Korea - MOE - K-REACH/CCA - Toxic Substances

No ingredients subject to this requirement.

Netherlands

Other

Netherlands - List of Carcinogens

•Crystalline silica

14808-60-7 (respirable dust, crystalline)

No other ingredients subject to this requirement.

Netherlands - Major Accidents - Qualifying Quantities for Accident Prevention

No ingredients subject to this requirement.

Netherlands - Major Accidents - Qualifying Quantities for Safety Reporting

No ingredients subject to this requirement.

New Zealand

Other

New Zealand - Ozone Depleting Substances

No ingredients subject to this requirement.

Russia

Labor

Russia - Limiting Quantities of Hazardous Substances - Hazard Class I

No ingredients subject to this requirement.

United Kingdom

Other

United Kingdom - Workplace Exposure Limits (WELs) - Substances in Review

No ingredients subject to this requirement.

United States

Labor

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

No ingredients subject to this requirement.

U.S. - OSHA - Specifically Regulated Chemicals

No ingredients subject to this requirement.

Environment

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

No ingredients subject to this requirement.

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

No ingredients subject to this requirement.

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

No ingredients subject to this requirement.

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

No ingredients subject to this requirement.

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

No ingredients subject to this requirement.

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

No ingredients subject to this requirement.

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

No ingredients subject to this requirement.

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

- Wood (may include fiber, strands, or veneer) as Wood dust, all soft and hard woods
carcinogen, 12/18/2009
- Titanium dioxide
13463-67-7
carcinogen, 9/2/2011
(airborne, unbound particles of respirable size)
- Silica, crystalline
14808-60-7
(airborne particles of respirable size)

No other ingredients subject to this requirement.

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

No ingredients subject to this requirement.

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

No ingredients subject to this requirement.

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

No ingredients subject to this requirement.

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

No ingredients subject to this requirement.

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

No ingredients subject to this requirement.

United States - Pennsylvania

Labor

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

No ingredients subject to this requirement.

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

No ingredients subject to this requirement.

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

- WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information

Revision Date • 30/November/2017

Preparation Date • 24/July/2017

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