

## Safety Data Sheet (SDS)

### SECTION 1 IDENTIFICATION

**Product identifier:** Nordic I-Joist, Nordic Lam, Nordic X-Lam

**Recommended uses / restrictions on use:** Structural components used in residential and commercial wood construction

**Manufacturer:** Chantiers Chibougamau Ltd.  
521, chemin Merrill  
Chibougamau (Quebec) Canada G8P 2K7  
Telephone: 1 418 748-6481

**Supplier:** Nordic Structures  
504-1100, avenue des Canadiens-de-Montréal  
Montreal (Quebec) Canada H3B 2S2  
Telephone: 1 866 817-3418

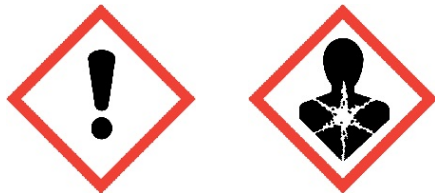
**Emergency telephone number:** 1 418 748-6481

### SECTION 2 HAZARD(S) IDENTIFICATION

**Note:** The products mentioned in Section 1 are not hazardous in their post-manufacture solid state. They may become hazardous by downstream activities (e.g., sawing, sanding, machining) which creates small particles. The hazard classification is for wood dust. According to Regulation (EC) No 1272/2008, WHMIS 2015, and OSHA Hazard Communication Standard (HCS) 29 CFR 1910.1200, this material is considered hazardous.

**Classification of the substance or mixture:** Skin sensitization 1; Skin irritation 2; Eye irritation 2B; Respiratory Sensitization 1; Specific Target Organ Toxicity Repeated Exposure 1; Specific Target Organ Toxicity Single Exposure 3; Carcinogenicity 1A; Combustible dust

**Pictograms:**



**Signal word:** Danger

**Hazard statements:**

GHS code	Hazard statement
H317	– May cause an allergic skin reaction
H315	– Causes skin irritation
H320	– Causes eye irritation
H334	– May cause allergy or asthma symptoms or breathing difficulties if inhaled
H372	– Causes damage to organs through prolonged or repeated exposure
H335	– May cause respiratory irritation
H350	– May cause cancer
N/A	– May form combustible dust concentrations in air

## Precautionary statements:

### Prevention

GHS code	Prevention statement
P201	– Obtain special instructions before use.
P202	– Do not handle until all safety precautions have been read and understood.
P210	– Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
P260 P261	– Avoid breathing dust.
P264	– Wash thoroughly after handling.
P272	– Contaminated work clothing should not be allowed out of the workplace.
P280 P281	– Use personal protective equipment as required (protective gloves, protective clothing, eye protection, face protection).
P285	– In case of inadequate ventilation wear respiratory protection.

### Response

GHS code	Response statement
P304 P341	– If inhaled: If breathing is difficult, 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 soap and water.
P333 P313	– If skin irritation or rash occurs: Get medical advice / attention.
P308 P313	– If exposed or concerned: Get medical advice / attention.
P362 P363	– Take off contaminated clothing and wash before reuse.
P314	– Get medical advice / attention if you feel unwell.
P305 P351 P338	– If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so – continue rinsing.

### Disposal

GHS code	Disposal statement
P501	– Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Other hazards:

NFPA Rating: Health: 1; Flammability: 1; Physical Hazard: 0

HMIS Rating: Health: 1; Flammability: 1; Reactivity: 0

## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

**Substances:** Products is not classified a substance.

**Mixture:**

Component	CAS no.	Weight %	Note
Wood			
– Wood dust	N/A	96-99	-
– Solid wood	N/A		
Resin/adhesive			
– Phenol formaldehyde	9003-35-4	1-4	Resin/adhesive in the post-manufacture products is cured and inert.
– Isocyanate	N/A		
– Polyurethane	64440-88-6		
Protective coating	N/A	< 1	-
Formaldehyde	50-00-0	< 0,1	-

## SECTION 4 FIRST-AID MEASURES

**Most import symptoms and effects:** Refer to Section 11.

**Inhalation:** If inhaled and breathing difficulty occurs, move the affected individual to fresh air and keep at rest in a position comfortable for breathing. If symptoms persists, seek medical attention.

**Skin irritation:** Wash affected areas with soap and water. If symptoms persists, seek medical attention.

**Eye irritation:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so – continue rinsing. If irritation persists or if foreign matter remains in the eyes, seek medical attention.

**Ingestion:** Not applicable if products are used under ordinary conditions.

**Immediate medical attention and special treatment:** If symptoms of exposure are experienced or accidental over-exposure occurs, move the affected individual to fresh air.

## SECTION 5 FIRE-FIGHTING MEASURES

**Suitable extinguish media:** Use normal firefighting methods appropriate for surrounding fire such as water, CO<sub>2</sub> and sand.

**Unsuitable extinguish media:** Water jet (to minimize disturbance of burning wood waste)

**Explosion data:** No explosion hazard when in solid state. Airborne concentrations of finely divided wood and resin dust, when combined with an ignition source, can create a fire / explosion hazard if the concentration of wood dust exceeds a LEL (lower explosion limit) of 40 g/m<sup>3</sup>.

**Hazardous combustion products:** Major components of wood smoke are inorganic gases (carbon monoxide, ozone, and nitrogen dioxide), hydrocarbons (benzene), aldehydes (acrolein, formaldehyde), solid particles, and polycyclic aromatic hydrocarbons.

**Special protective equipment and precautions for fire-fighters:** None known.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Cloth or leather gloves for routine handling, vented safety glass goggles, steel-toe boots, and dust mask; use a NIOSH-approved dust respirator if ventilation is inadequate. Provide sufficient ventilation and remove sources of ignition.

**Environmental precautions:** No special environmental precautions necessary.

**Methods and material for containment and cleaning up:** Vacuum, shovel or sweep up spills and place in container disposal. Avoid use of compressed air.

## SECTION 7 HANDLING AND STORAGE

**Precautions for safe handling:** None other than personal protective equipment.

**Conditions for safe storage:** Store in dry and ventilated area, and away from incompatible substances and sources of ignition. For incompatible substances, refer to Section 10.

**Special shipping information:** Protect from rain and other water exposure to avoid formation of discoloring fungi.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters:**

Component	ACGIH TLV		OSHA PEL	
	TWA	STEL	TWA	STEL
Wood dust	1 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Solid wood	3 mg/m <sup>3</sup> (respirable)	-	5 mg/m <sup>3</sup> (respirable)	-
Resin/adhesive	10 mg/m <sup>3</sup> (inhalable)	-	15 mg/m <sup>3</sup> (inhalable)	-
Protective coating	N/A	-	N/A	-
Formaldehyde	0.3 ppm (ceiling)	-	0.75 ppm	2 ppm

**Engineering controls:** Ventilation measures effective to keep general dust concentration below allowable exposure limit. In addition, regular house-keeping practices should be used to minimize dust collection and to reduce the chance of slipping due to dust collected on the floor surfaces.

**Personal protective equipment (PPE):**

Eye/face: Vented safety glass goggles

Skin/body: Cloth or leather gloves for routine handling; steel-toe boots

Respiratory: Dust mask; use a NIOSH-approved dust respirator if ventilation is inadequate

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Solid

**Appearance:** Light brown wood products

**Odour:** Slight to none

**Odour threshold:** Not available

**pH value:** Not applicable

**Melting point/freezing point:** Not applicable

**Initial boiling point/boiling range:** Not applicable

**Flash point:** Not applicable

**Evaporation rate:** Not applicable

**Flammability:** Products are combustible under normal conditions and climate and may burn if exposed to open flames, high temperature objects or oxidizing chemicals.

**Upper/Lower flammable limit:** Refer to Section 5, «Explosion data»

**Vapour pressure:** Not applicable

**Vapour density:** Not applicable

**Relative density (specific gravity):** 0.40-0.55

**Solubility:** Not applicable

**Coefficient of water/oil distribution:** Not applicable

**Auto-ignition temperature:** May ignite above temperature of 204 °C (400 °F)

**Decomposition temperature:** May decompose above temperature of 204°C (400 °F)

**Viscosity:** Not applicable

## SECTION 10 STABILITY AND REACTIVITY

**Reactivity:** Non-reactive under normal condition

**Chemical stability:** Chemically stable under normal conditions of use

**Possible hazardous reactions:** No hazardous reaction known under normal conditions of use

**Conditions to avoid:** Avoid sources of ignition and incompatible substances

**Incompatible substances:** Oxidizers (increased risk of combustion)

**Hazardous decomposition products:** Refer to Section 5, «Hazardous combustion products»

## SECTION 11 TOXICOLOGICAL INFORMATION

### 10.1 Solid Wood Product

Not classified as a toxic product. Wood and other bio-based products emit formaldehyde at very low levels, which is natural and below toxic threshold.

### 10.2 Wood dust (in manufacture/processing operations)

**Routes of exposure:** Inhalation of wood dust and contact with skin and eyes.

**Effects of acute exposure:** Irritation of respiratory system, nasal dryness, coughing, sneezing, wheezing, rhino rhea (running nose), watering / reddening of eyes, irritation of skin. Pre-existing respiratory and skin conditions may be aggravated by exposure to wood dust.

**Effects of chronic exposure:** Same effects as under acute exposure, as well as increased risk of upper respiratory tract disease, sinusitis, and dermatitis. Repeated exposure may cause allergic reactions in sensitive individuals.

**Exposure limit:** 5 mg/m<sup>3</sup> TWA (time weighted average at 8 hours/day or 40 hours/week); source: OSHA.

**Irritancy:** Slight to moderate

**Sensitization:** Slight to moderate

**Carcinogenicity:** Wood dust has been classified by the International Agency for Research on Cancer (IARC) as carcinogenic to humans in furniture and cabinet-making operations, and possibly carcinogenic to humans in carpentry and joinery operations. Formaldehyde has been classified by the IARC, the National Toxicology Program (NTP) and the ACGIH as either carcinogenic to humans or as a potential carcinogen. Formaldehyde is also regulated by OSHA as a human carcinogen.

**Reproductive toxicity:** No known effects

**Teratogenicity:** No known effects

**Mutagenicity:** No known effects

**Name of toxicologically synergistic products:** No known interactions

### SECTION 12 ECOLOGICAL INFORMATION

**Ecotoxicity:**

Products post-manufacture solid state: Not available

Resin/adhesive: Not available

Protective coating: Not available

Formaldehyde:

Group	LC <sub>50</sub>	Note
Oncorhynchus mykiss (Rainbow trout)	118 ppm/96 hr	Weight: 0.63 g
	>100 ppm/96 hr	Weight: 0.81 g
	207 mg/L/24 hr	Length: 1.5-1.8 in, weight: 0.5-0.9 g
	168 mg/L/48 hr	Length: 1.5-1.8 in, weight: 0.5-0.9 g
	50 mg/L/48 hr	-
Salmo salar (Atlantic salmon)	156 mg/L/24 hr	-
	69 mg/L/96 hr	-
	173 ppm/96 hr	Weight: 0.6 g
Salvelinus namaycush (Lake trout)	220 mg/L/24 hr	Length: 4.0 in, weight: 2.5-3.2 g
	167 mg/L/48 hr	Length: 4.0 in, weight: 2.5-3.2 g
	100 ppm/96 hr	Weight: 0.5 g
Lepomis macrochirus (Bluegill)	100 ppm/96 hr	Weight: 0.5 g
	81 ppm/96 hr	Weight: 0.71 g
	185 mg/L/24 hr	Length: 1.4-1.7 in, weight: 0.7-1.1 g
	140 mg/L/48 hr	Length: 1.4-1.7 in, weight: 0.7-1.1 g
Pimephales promelas (Fathead minnow)	24 mg/L/96 hr	-

**Persistence and degradability:**

Wood: Expected to be biodegradable

Resin/adhesive: Expected to be biodegradable

Protective coating: Not available

Formaldehyde: Not available

**Bioaccumulative potential:** Not available

**Mobility in soil:** Not available

**Other adverse effects:** None known

### SECTION 13 DISPOSAL CONSIDERATIONS

**Disposal method:** Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Store in a well-ventilated place.

### SECTION 14 TRANSPORT INFORMATION

**Regulations:**

U.S. Department of Transportation (DOT): Not regulated as a hazardous material

Canadian Transportation of Dangerous Goods (TDG): Not listed as a dangerous goods

IMDG/IATA: Not regulated as a hazardous material

**UN number:** Not applicable

**UN proper shipping name:** Not applicable

**Transport hazard class:** Not applicable

**Packing Group:** Not applicable

**Environmental hazards (IMGD):** Not applicable

**Transport in bulk:** Not applicable

**Special precautions:** Not applicable

### SECTION 15 REGULATORY INFORMATION

**Note:** Products mentioned in Section 1 contain formaldehyde (< 0.1%) which may be emitted from the products. Under normal conditions of use, formaldehyde emission rates are below the significant risk level.

**Canada:**

CEPA: Not applicable for post-manufacture solid state product

WHMIS: Not applicable for post-manufacture solid state product

**United States:**

CERCLA/SARA: Not applicable for post-manufacture solid state product

RCRA: Not applicable for post-manufacture solid state product

TSCA: Not applicable for post-manufacture solid state product

OSHA: Not applicable for post-manufacture solid state product

CAA: Not applicable for post-manufacture solid state product

California, Proposition 65: Products mentioned in Section 1 contain formaldehyde (< 0.1%) which may be emitted from the products. Warning: Downstream activities (e.g., sawing, sanding, machining) generates wood dust known to the State of California to cause cancer.

New Jersey: Products mentioned in Section 1 contain formaldehyde (< 0.1%) which may be emitted from the products. Downstream activities (e.g., drilling, sawing, sanding, machining) generates wood dust. New Jersey's Environmental Hazardous Substance List does not apply to post-manufacture solid state product.

Minnesota: Products mentioned in Section 1 contain formaldehyde (< 0.1%) which may be emitted from the products. Downstream activities (e.g., drilling, sawing, sanding, machining) generates wood dust. Minnesota Statutes 1984, sections 144.495 and 325F.181 does not apply to post-manufacture solid state product.

Pennsylvania: Pennsylvania's Appendix A, Hazardous Substance List does not apply to post-manufacture solid state product.

## SECTION 16 OTHER INFORMATION

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**Preparation date:** 2017-03-02

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### Key to Abbreviations and Acronyms:

*ACGIH:* American Conferences of Governmental Industrial Hygienists  
*CAA:* Clean Air Act  
*CAS:* Chemical Abstracts Service  
*CEPA:* Canadian Environmental Protection Act  
*CERCLA:* Comprehensive Response Compensation and liability Act  
*CLP:* Classification, Labelling and Packaging of Substances and Mixtures  
*DOT:* U.S. Department of Transportation  
*GHS:* Globally Harmonized System of Classification and Labelling of Chemicals  
*HCS:* Hazard Communication Standard  
*HMIS:* Hazardous Materials Identification System  
*IARC:* International Agency for Research on Cancer  
*IATA:* International Air Transport Association  
*IMDG:* International Maritime Dangerous Goods  
*LC<sub>50</sub>:* Lethal Concentration for 50% of the animal test population  
*NFPA:* National Fire Protection Association  
*NIOSH:* National Institute for Occupational Safety and Health  
*NTP:* National Toxicology Program  
*OSHA:* Occupational Safety and Health Administration  
*PEL:* Permissible Exposure Limits  
*RCRA:* Resource Conservation and Recovery Act  
*SARA:* Superfund Amendments and Reauthorization Act  
*STEL:* Short-Term Exposure Limit  
*TDG:* Transport of Dangerous Goods  
*TLV:* Threshold Limit Values  
*TSCA:* Toxic Substance Control Act  
*TWA:* Time Weighted Average  
*WHMIS:* Workplace Hazardous Materials Information System

### References:

Official Journal of the European Union (2008). *Regulation (EC) no 1272/2008 of the European Parliament and of the Council*. Retrieved from <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF>

Osh.Net (2000). *Understanding the OSHA Hazard Communication Standard 29 CFR 1910.1200*. Retrieved from [http://www.osh.net/articles/archive/osh\\_basics\\_2000\\_nov29.htm](http://www.osh.net/articles/archive/osh_basics_2000_nov29.htm)

MSDS Europe (n.d.). *MSDS Information*. Retrieved from [http://www.msds-europe.com/id-486-h\\_p\\_statements\\_ghs\\_clp.html](http://www.msds-europe.com/id-486-h_p_statements_ghs_clp.html)

National Library of Medicine (2016). *WebWISER*. Retrieved from <http://webwiser.nlm.nih.gov/>