NORDIC
STRUCTURES

Safety Data Sheet (SDS) – Engineered Wood and Mass Timber

SECTION 1 IDENTIFICATION

Product identifier: Nordic Joist, Nordic Lam, Nordic Lam+, Nordic X-Lam

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

Manufacturer: Chantiers Chibougamau
521, chemin Merrill, P.O. box 216
Chibougamau (Quebec) Canada G8P 2K7
Telephone: 418-748-6481

Supplier: Nordic Structures
100-1100, Canadiens-de-Montréal Avenue
Montreal (Quebec) Canada H3B 2S2
Telephone: 514-871-8526 or 1 866 817-3418

Emergency telephone number: 514-871-8526 or 1 866 817-3418

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 create 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
H315	–	Causes skin irritation.
H317	–	May cause an allergic skin reaction.
H320	–	Causes eye irritation.
H334	–	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	–	May cause respiratory irritation.
H350	–	May cause cancer.
H372	–	Causes damage to organs through prolonged or repeated exposure.

NORDIC STRUCTURES

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
P302 P352	–	If on skin: Wash with soap and water.
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.
P304 P341	–	If inhaled: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308 P313	–	If exposed or concerned: Get medical advice/attention.
P311 P342	–	If experiencing respiratory symptoms: Call a Poison Center or doctor/physician.
P313 P333	–	If skin irritation or rash occurs: Get medical advice/attention.
P314	–	Get medical advice/attention if you feel unwell.
P362 P363	–	Take off contaminated clothing and wash before reuse.
P372	–	May form explosive dust concentrations in air

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

NORDIC STRUCTURES

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substances: Products is not classified a substance.

Mixture

Component	CAS Number	Weight (%)	Note
Wood		96-99	-
– Wood dust	n.a.		
– Solid wood	n.a.		
Adhesive		1-4	Adhesive in the post-manufacture products is cured and inert. For more information on adhesives used in Nordic products, refer to NS-NT204.
– Phenol formaldehyde [(a)]	9003-35-4		
– Isocyanate	9016-87-9		
– Polyurethane	64440-88-6		
Protective coating	n.a.	< 1	For more information on protective coating, refer to NS-NT205.

a) Nordic Joist only. It should be noted that Nordic I-joists are qualified for low formaldehyde emissions following the principles of ISO 12460-4 and AS/NZS 4357.4, and the performance requirements of ASTM D5055. For more information, refer to APA PR-E730.

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 persist, seek medical attention.

Skin irritation: Wash affected areas with soap and water. If symptoms persist, 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: Normal firefighting methods appropriate for surrounding fire such as water, CO_2 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 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/m³.

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/m³	10 mg/m³	5 mg/m³	10 mg/m³
Wood	3 mg/m³ (respirable)	-	5 mg/m³ (respirable)	-
Adhesive	10 mg/m³ (inhalable)	-	15 mg/m³ (inhalable)	-
Protective coating	n.a.	-	n.a.	-

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 oxiding chemicals.

Upper/Lower flammable limit: Refer to Section 5.

Vapour pressure: Not applicable.

Vapour density: Not applicable.

Relative density (specific gravity): From 0.40 to 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: Oxiders (increased risk of combustion).

Hazardous decomposition products: Refer to Section 5.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Solid Wood Product

Not classified as a toxic product.

11.2 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/m³ 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.

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.
- Adhesive: Not available.
- Protective coating: Not available.

Persistence and degradability

- Wood: Expected to be biodegradable.
- Adhesive: Expected to be biodegradable.
- Protective coating: 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. For more information on the formaldehyde emissions of Nordic products, refer to APA PR-E730 and APA PR-E740.

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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Disclaimer: This SDS is intended solely for safety education and not for use in relation to specifications of warranties. The information presented herein was obtained from sources considered reliable and is provided without any guarantees to its accuracy or correctness. Since the handling, use, and storage of this production is beyond our control, Nordic Structures assumes no responsibility and disclaims any liability for any loss, damage, injury, or expense arising from these activities.

Comments: Nordic Structures has attempted to provide a readable and informative SDS for use with Nordic products. Should you have any comments and/or suggestions regarding this document, please send them to Nordic Structures at the above address or at info@nordic.ca.

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
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

Canadian Centre for Occupational Health and Safety (2023). WHMIS – Safety Data Sheet (SDS). Retrieved from https://www.ccohs.ca/oshanswers/chemicals/whmis_ghs/sds.html.

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Occupational Safety and Health Administration (2013). 1919.1200 – Hazard Communication. Retrieved from https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.1200.

MSDS Europe (n.a.). Hazard Statements. Retrieved from http://www.msds-europe.com/id-486-h_p_statements_ghs_clp.html.