



Newpro Natural Blonde

MATERIAL SAFETY DATA SHEET

MANUFACTURER'S NAME: Northern Engineered Wood Products Ltd 2007

ADDRESS: P.O. Box 2890, Smithers, B.C. VOJ 2N0

PRODUCT NAMES: Newpro Natural Blonde - Melamine Laminated and Sanded M2 / M3 Particle Board (Liquid Melamine Resin)

CPA MILL #: 203

DATE PREPARED/REVISED: June 2007.

COMPOSITE PANEL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Melamine and Unfinished Particleboard

General use: Re-manufacturing, construction and furniture processes.

Product Description: A panel product manufactured from cellulosic materials bonded together with a Casco-Resin NPS-107.

TELEPHONE: Office (250) 847-4394 Plant (250) 847-3572 **FAX:** (250) 847-9687

COMPOSITION/INFORMATION ON INGREDIENTS

	Wt %	CAS Registry #
Ligno-cellulosic Materials	88 - 94	
Liquid MF Resin	6 - 12	9011-05-6

EXPOSURE LIMITS

Formaldehyde CAS Registry # 50-00-0

OSHA PEL – TWA: 0.75 PPM

OSHA PEL – STEL: 2 PPM

ACGIH TLV – Ceiling: 0.30 PPM

Wood Dust/Ligno-cellulosic fiber ^{1,2}

OSHA PEL – TWA 15.0 mg/m³ (total dust)³

5.0 mg/m³ (respirable fraction)

Wood Dust/Ligno-cellulosic fiber,
Inhalable Fraction³
(All Species except Western Red Cedar)

ACGIH TLV – TWA: 1.0 mg/m³

Wood Dust/Ligno-cellulosic fiber,
Inhalable Fraction (Western red cedar)³

ACGIH TLV – TWA 0.5 mg/m³

HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

The product may release small quantities of formaldehyde in gaseous form. Emissions decrease through time as the panels age. Manual or mechanical cutting or abrasion processes performed on the product can result in generation of wood dust

ACUTE

INHALATION:

Gaseous formaldehyde may cause temporary irritation to nose and throat. Some reports suggest that formaldehyde may cause respiratory sensitization, such as asthma, and that pre-existing respiratory disorders may be aggravated by exposure.

Wood Dust may cause nasal dryness, irritation and obstruction. Coughing, wheezing, sneezing, sinusitis and prolonged colds have also been reported.

EYE CONTACT:

Gaseous formaldehyde may cause temporary irritation or a burning sensation. Wood dust can cause mechanical irritation.

SKIN CONTACT:

Both formaldehyde solutions (liquid) and various species of wood dust may evoke allergic contact dermatitis in sensitized individuals.

INGESTION:

Not likely to occur.

CHRONIC

Some reports suggest that formaldehyde may cause respiratory sensitization, such as asthma, and that pre-existing respiratory disorders may be aggravated by exposure. Other studies show no impact on respiratory sensitization. International Agency for Research on Cancer (IARC) classifies formaldehyde as a carcinogen to humans (Group 1). This classification is based primarily on IARC's evaluation of increased risk in the occurrence of cancers in the nasopharyngeal cavity (NPC) associated with occupational exposure to formaldehyde. The National Toxicology Program (NTP) includes formaldehyde in its Annual Report on carcinogens. OSHA regulates formaldehyde as a potential cancer agent.

In studies involving rats, formaldehyde has been shown to cause nasal cancer after long-term exposure to very high concentrations (14+ PPM), far above those normally found in the workplace.

Wood dust (and/or ligno-cellulosic fibers), depending on species, may cause respiratory sensitization and/or irritation. IARC classifies wood dust as a carcinogen to humans (Group 1). This classification is based primarily on IARC's evaluation of increased risk in the occurrence of adenocarcinomas of the nasal cavities and Para nasal sinuses associated with exposure to wood dust. IARC did not find sufficient evidence to associate cancers of the oropharynx, larynx, lung, lymphatic and haematopoietic systems, stomach, colon or rectum with exposure to wood dust. The National Toxicology Program (NTP) includes wood dust in its Annual Report on carcinogens.

HMIS Ratings: Health: 1 Fire: 0 Physical Hazard: 0
Hazard Scale: 0 = *Minimal* 1 = *Slight* 2 = *Moderate* 3 = *Serious* 4 = *Severe*

FIRST AID MEASURES

INHALATION:

Wood dust may cause unpleasant obstruction in the nasal passages, resulting in dryness of nose, dry cough, sneezing and headaches. Remove to fresh air. Get medical attention if irritation persists, severe coughing or breathing difficulty occurs.

EYE CONTACT:

Wood dust may cause mechanical irritation. Treat dust in eye as foreign object. Flush eyes with large amounts of water. Remove to fresh air. If irritation persists, get medical attention.

SKIN CONTACT:

Wash affected areas with soap and water. Get medical attention if rash or irritation persists or dermatitis occurs.

INGESTION:

Not Applicable.

FIRE FIGHTING MEASURES

FIRE FIGHTING HAZARD:

Wood is classified as a Class A combustible material.

FLASHPOINT AND METHOD:

Not Applicable.

FLAMMABLE LIMITS:

LFL: Wood Dust: 40 grams per cubic meter of air

AUTOIGNITION TEMPERATURE:

EXTINGUISHING MEDIA:

Water, carbon dioxide, sand.

FIRE FIGHTING EQUIPMENT:

Use recommended Class A fire fighting equipment when fighting an incipient fire. Source: Essentials of Fire Fighting 4th Fourth Edition, Edited by Richard Hall and Barbara Adams, Fire Protection Publications, Oklahoma State University, Stillwater, OK.

UNUSUAL FIRE OR EXPLOSION HAZARDS:

Sawing, sanding or machining can produce wood dust (and/or lignocelluloses fibers) as a by-product that may present an explosion hazard.

NFPA Rating for Wood Dust (Scale 0-4): Health = 1 Fire = 1 Reactivity = 0

ACCIDENTAL RELEASE MEASURES

LAND SPILL:

Generally not applicable to panel products, however if a spill occurs the applicable federal, provincial, state, and local regulations must be followed.

WATER SPILL:

Generally not applicable to panel products, however if a spill occurs the applicable federal, provincial, state and local regulations must be followed.

HANDLING AND STORAGE

STORAGE:

This product should not be stored where exposure to water could occur or near a source of ignition. Avoid storing in areas of high relative humidity and temperature. High temperature and inadequate ventilation could allow concentrations of gaseous formaldehyde in the storage area. Adequate ventilation of the storage area will help reduce the build-up of the gaseous formaldehyde. It is recommended to store product in an area of relative humidity and temperature that approximates end use.

EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Certain activities of the re-manufacturing process of this product could possibly produce wood dust (or lignocelluloses fibers) or gaseous formaldehyde. Provide adequate general and local exhaust ventilation to keep airborne contaminant concentration levels below the applicable levels.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

RESPIRATOR:

Wear NIOSH/MSHA approved respirator when the allowable exposure limits may be exceeded.

PROTECTIVE CLOTHING:

Wear side shield safety glasses during the re-manufacturing of this product. Other protective equipment such as gloves and outer garments may be needed depending on dust conditions.

GENERAL HYGIENE:

Practice proper personal hygiene.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Description: light to dark colored solid, color and odor are dependent on the wood species.

Boiling Point: not applicable	pH: not applicable
Evaporation Rate: not applicable	Solubility in Water (% by weight): Insoluble
Freezing Point: not applicable	Specific Gravity: generally < 1
Melting Point: not applicable	Vapor Density: not applicable
Molecular Formula: not applicable	Vapor Pressure: not applicable
Molecular Weight: not applicable	Viscosity: not applicable
Oil-Water Distribution Coefficient: not applicable	% Volatile by volume (70°F): not applicable

STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions.

REACTIVITY:

Avoid product contact with open flame and any temperature sources that could induce thermal decomposition. Avoid product contact with oxidizing agents, drying oils and strong acids.

HAZARDOUS DECOMPOSITION:

Thermal and/or thermal-oxidative decomposition can produce irritating and toxic fumes and gases, including carbon monoxide, hydrogen cyanide, polynuclear aromatic hydrocarbons, aldehydes and organic acids.

HAZARDOUS POLYMERIZATION:

Will not occur.

TOXICOLOGICAL INFORMATION

Wood Dust:

Wood dust (softwood or hardwood: OSHA Hazard Rating = 3.3; moderately toxic with probable oral lethal dose to humans being 0.5 – 5 g/kg (about 1 pound for a 70 kg or 150 pound person).

Source: OSHA Regulated Hazardous Substances, Government Institutes, Inc., and February 1990.

Wood dust (generated from sawing, sanding or machining the product) may cause nasal dryness, irritation, coughing and sinusitis. National Toxicology Program (NTP) and the International Agency for Research on Cancer (IARC) classify wood dust as a human carcinogen (IARC Group 1). This classification is based primarily on increased risk in the occurrence of Adenocarcinomas of the nasal cavities and Para nasal sinuses associated with exposure to wood dust. The evaluation did not find sufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust.

Formaldehyde:

NTP and OSHA – Probable human carcinogen, IARC Group 1 for sufficient evidence that Formaldehyde causes nasopharyngeal, a rare cancer in humans, and “limited evidence” for cancer of nasal cavity and sinuses, and a “strong but not sufficient evidence” for leukemia.

Additional Toxicity Date: See acute and chronic health effects provided in Section 3: Hazard identification.

Target Organs: See acute and chronic health effects provided in Section 3: Hazard Identification

ECOLOGICAL INFORMATION**Ecotoxicity****A. General Product Information**

Not available for product in purchased form. See Component Analysis.

B. Component Analysis – Aquatic Toxicity Formaldehyde (50-00-0)

Test & Species	Concentration	Conditions
96 Hr LC ₅₀ fathead minnow	24.1 mg/L	flow through
96 Hr LC ₅₀ bluegill	0.10 mg/L	flow through
5 min EC ₅₀ Photobacterium phosphorium	9.0 mg/L	
15 min EC ₅₀ Photobacterium phosphorium	7.26 mg/L	
25 min EC ₅₀ Photobacterium Phosphorium	6.81 mg/L	
96 Hr EC ₅₀ water flea	20 mg/L	

Environmental Fate

Not available for product in purchased form.

DISPOSAL CONSIDERATIONS**General Product Information**

This panel product is recyclable. It is the user’s responsibility to determine at the time of disposal whether your product meets any applicable criteria for hazardous waste disposal. Disposal must follow applicable federal, provincial, state and local regulations.

EPA Waste Number & Descriptions

This product in purchased form is not considered hazardous waste under federal hazardous waste regulations 40 CFR 261. If the product is altered by processing, use or contamination, waste can be tested using methods described in 40 CFR 261 to determine whether the altered product meets the criteria for hazardous waste. State, provincial and local requirements for waste disposal may be different than U.S. federal regulations.

Disposal Instructions

If disposed or discarded in its purchased form, ordinary trash collection is acceptable. It is the user's responsibility to determine at the time of disposal whether your product meets RCRA criteria for hazardous waste. Follow applicable federal, state, provincial and local regulations.

TRANSPORT INFORMATION

Department of Transportation (DOT): This product is not a DOT hazardous material. Not listed as a hazardous material in Canadian Transportation of Dangerous Goods (TDG). It is the purchaser's responsibility to see if this product meets any regulations depending on their location.

REGULATORY INFORMATION

U,S Federal Regulations

A. General Product Information

OSHA: Wood products are not hazardous under the criteria of the Federal OSHA Hazard communication Standard 29 CFR 1910.1200. However, formaldehyde emissions and wood dust generated by sawing, sanding or machining this product may be hazardous. This product contains formaldehyde.

HUD: The Department of Housing and Urban Development (HUD) regulation 24 CFR 3280 sets emission standards and provides for 3rd party certification of particleboard and MDF formaldehyde emissions.

B. Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Formaldehyde (50-00-0)

SARA 302: 500lb. TPQ
CERCLA: 100lb final RQ; 45.4 kg final RQ

State Regulations

Component Analysis – State

The following components appear on one or more of the following state hazardous substances lists and may also appear on similar lists in states not on the chart:

Component	CAS	CA	MA	MN	NJ	PA	RI
Formaldehyde	50-00-0	yes	yes	yes	yes	yes	Yes
Wood dust, all soft and hard woods	None	no	no	yes	no	yes	yes

Additional Regulatory Information

Component Analysis – WHMIS IDL

No components are listed in the WHMIS IDL.

Component Analysis – Inventory

Component	CAS#	TSCA	CAN	EEC
-----------	------	------	-----	-----

Formaldehyde	50-00-0	Yes	DSL	EINECS
--------------	---------	-----	-----	--------

OTHER INFORMATION

DEFINITIONS OF ACRONYMS:

ACGIH:	American Conference of Governmental Industrial Hygienists
ANSI:	American National Standards Institute
C:	Ceiling Limit
CAS:	Chemical Abstract Services Number
CERCLA:	Comprehensive Environmental Response Compensation & Liability Act
CFR :	Code of Federal Regulations
CWA :	Clean Water Act
DOT:	Department of Transportation
EC ₅₀ :	Effective concentration that inhibits endpoints for 50% of control population
EPA:	Environmental Protection Agency
FDA:	Food and Drug Administration
HCS:	Hazard Communication Standard
HMSI:	Hazard Material Information System
IARC:	International Agency for Research on Cancer
LC _{L0}	Lowest lethal concentration of a substance
LC ₅₀	Concentration of a material expected to kill 50% of an animal test group
LD _{L0}	Lowest lethal dose of a material
LD ₅₀	Dose of a material expected to kill 50% of an animal test group
LEL:	Lower Explosive Limit
LFL:	Lower Flammability Limit
MSHA:	Mining Safety and Health Administration
NA:	Not Applicable
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health, U.S. Public Health Service, U.S. Department of Health and Human Services
NPRI:	Canadian National Pollution Release Inventory
NTP:	national Toxicology Program
OSHA:	Occupational Safety and Health Administration, U.S. Department of Labor
PEL:	Permissible Exposure Limit
PPE:	Personal Protective Equipment
RCRA:	Resource Conservation and Recovery Act
RQ:	Reportable Quantity
SARA:	Superfund Amendments and Reauthorization Act
STEL:	Short Term Exposure Limit
STP:	Standard Temperature and Pressure
TC _{L0} :	Lowest concentration in air resulting in a toxic effect
TDG:	Canadian Transportation of Dangerous Goods
TLV:	Threshold Limit Value
TSCA:	Toxic Substances Control Act
TWA:	Time-weighted Average
UFL:	Upper Flammable Limit
WHMIS:	Workplace Hazardous Material Information System

REVISION SUMMARY:

(Guideline User: It is suggested when updating your MSDS that you note in this section the date and the sections revised.)

Example: Revision Summary:

May 20, 2000, this MSDS has been revised in the following sections:
Manufacturer Emergency Phone Numbers.

DISCLAIMER:

(Guideline User: It is suggested to locate your Product Disclaimer in this section. *Product disclaimers should be prepared and approved by your company's legal counsel.*)

WOOD DUST LABEL

WOOD DUST

For All Wood Dust, Wood and Wood Products Not Preservative Treated)

CAUTION

WOOD DUST CAN BE PRODUCED BY SAWING, SANDING OR MACHING
WOOD AND WOOD PRODUCTS

FLAMMABLE – POSSIBLE EXPLOSION HAZARD

MAY CAUSE RESPIRATORY, EYE AND SKIN IRRITATION

SOME SPECIES MAY CAUSE DERMATITIS OR ALLERGIC RESPONSE

THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (iarc)
CLASSIFIES WOOD DUST AS A NASAL CARCINOGEN IN HUMANS

THE NATIONAL TOXICOLOGY PROGRAM (ntp) CLASSIFIES WOOD DUST AS
A KNOWN HUMAN CARCINOGEN

Disclaimer:

Newpro believes the information contained in this MSDS to be accurate at the time of preparation and has been compiled using sources believed to be reliable. However, Newpro make no warranty. It is the responsibility to of the user to comply with local, province, state and federal regulations concerning use of this product.

