

1195, rue Lavigerie, suite 370
 Sainte-Foy (Québec)
 Canada G1V 4N3
 Tel (418) 659.5240
 Fax (418) 659.4568
 Télex 051 31681

MATERIAL SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

PRODUCT Particleboard
PRODUCT NAME Forpan
MANUFACTURER'S NAME Uniboard Canada inc.
ADDRESS 1195 Lavigerie, Suite 370
 Ste-Foy (Québec)
 G1V 4N3
TELEPHONE (418) 659-5240
DATE PREPARED/REVISED Jan. 30, 1989/Aug. 15, 1994

SECTION 2 : HAZARDOUS INGREDIENTS

Under some conditions, the following hazardous chemicals or components may be released from particleboard and/or products manufactured from same. Wood dust may be also be developed from machining from various wood products.

chemical component	chemicals abstracts services registry (CAS #)	American conference of governmental industrial hygienists (ACGIH) EXPOSURE LIMIT	Occupational safety and health administration (OSHA) PERMISSIBLE EXPOSURE LIMIT
Formaldehyde	50-00-0	.3 ppm 8 hrs TWA 2 ppm STEL	0.5 ppm Action Level(8 hrs TWA) 0.75 ppm Maximum (8 hrs TWA) 2.0 ppm Maximum (STEL)
Wood dust	N/A	5 mg/m ³ 8 hrs TWA 10 mg/m ³ STEL	5 mg/m ³ TWA 10 mg/m ³ STEL

TWA= Time weighted average, STEL=Short Term Exposure Limit



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 JAPAN

SECTION 3 : PHYSICAL CHARACTERISTICS

BOILING POINT (°C)	N/A
SPECIFIC GRAVITY (WATER=1)	0.650 TO 0.750
VAPOR PRESSURE (mm Hg)	N/A
APPEARANCE AND ODOUR	Sraw yellow to light brown. No distinctive odour.
MELTING POINT (°C)	N/A
VAPOR DENSITY (AIR=D)	N/A
REACTIVITY IN WATER	N/A
EVAPORATION RATE	N/A

SECTION 4 : FIRE AND EXPLOSION DATA

FLASH POINT	N/A
AUTO IGNITION TEMPERATURE	218 to 246 °C
FLAMMABLE LIMITS	Formaldehyde Lower Explosion Limit : 7% Formaldehyde Upper Explosion Limit : 73%
FIRE EXTINGUISHER MEDIA	Water spray, CO ₂ and sand
SPECIAL FIRE FIGHTING PROCEDURES	Fire fighting procedures for wood products are well known
UNUSUAL FIRE AND EXPLOSION HAZARDS	Particleboard is not an explosion hazard. Sawing, sanding and/or machining particleboard could result in the by-product wood dust. Wood dust may present a strong to severe explosion hazard if a dust cloud contacts an ignition source. According to data contained in NFPA (National Forest Products Association) standards, 40 g/m ³ (.040 ounce/ft ³) is the minimum explosive concentration for wood flour.



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SECTION 5 : REACTIVITY DATA

STABILITY	Stable
CONDITIONS TO AVOID	High relative humidity and high temperature increase the rate of emission of formaldehyde from particleboard
INCOMPATIBILITY (MATERIALS TO AVOID)	Strong oxidizing agents, strong acids and drying oils
HAZARDOUS DECOMPOSITION PRODUCTS	Thermal and/or thermal-oxidative decomposition (burning) can produce irritating and toxic fumes and gases, including CO, aldehydes and organic acids
HAZARDOUS POLYMERIZATION	Will not occur

SECTION 6 : HEALTH AND HAZARD DATA

SIGN AND SYMPTOMS OF EXPOSURE:

ACUTE	May cause temporary irritation of skin, eyes or respiratory system. May cause sensitization in susceptible individuals
CHRONIC	Rats exposed to 14 ppm formaldehyde developed nasal cancer. The National Cancer Institute epidemiology study of 26,000 workers found little evidence linking formaldehyde exposure to cancer. The Environmental Protection Agency has classified formaldehyde a B-1 probable human carcinogen. Formaldehyde is listed by the International Agency for Research on Cancer and classified it as GROUP IIA chemical - Probable Human carcinogen.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Respiratory conditions or allergies



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EMERGENCY FIRST AID PROCEDURES:

INHALATION

Remove to fresh air. If persistent irritation, breathing difficulties or rash occur, seek medical advice (Primary route of exposure is inhalation)

EYES

Remove to fresh air, flush with clear water for 10 minutes. If irritation persists, get medical attention.

SKIN

Remove to fresh air. If a rash or persistent irritation occur, get medical advice before returning to work where wood dust is present

SECTION 7 : SPILL/LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Provide adequate ventilation to reduce the possible build-up of formaldehyde vapor.

Provide adequate ventilation where dust conditions may occur.

STEPS TO BE TAKEN IF SPILLED OR RELEASED:

See above for formaldehyde precautions.

Sweep or vacuum spills of dust for recovery or disposal; avoid creating dust conditions.

WASTE DISPOSAL METHOD:

Incinerate or landfill in accordance with local, provincial, or state, and federal regulations.



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NFIBRE
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SECTION 8 : SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

Avoid prolonged or repeated breathing of wood dust in the air.

Wear NIOSH (National Institute for Occupational Safety and Health) approved breathing protection for exposure to wood dust. Respirators are required if air contaminants exceed American Conference of Governmental Industrial Hygienists Threshold Limit Value (ACGIH TLV).



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VENTILATION:

LOCAL EXHAUST

Necessary to remove dust in sanding, sawing and machining processes

MECHANICAL

Ventilate to assure formaldehyde concentration is less than ACGIH TLV

EYE PROTECTION

Wear safety goggles in dusty environments

DISCLAIMER

Uniboard Canada inc. 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, Uniboard Canada inc. makes no warranty, either expressed or implied concerning the accuracy or completeness of the information presented. It is the responsibility of the user to comply with local, provincial, state and federal regulations concerning use of this product. It is the further responsibility of the buyer to research and understand safe methods of storing, handling and disposal of this product.



UNIBOARD CANADA INC.
 3080, boul. Le Carefour, bureau 400
 Laval (Québec)
 H7T 2R5

PANNEAUX VICPLY INC.
 5605, rue Cypihot
 St-Laurent (Québec) H4S 1R2

DIVISION ST-LAURENT
 Manufacturier du produit
 "MultiLook Prestige"
 5605, rue Cypihot
 St-Laurent (Québec) H4S 1R2

En tant que membre de l'Association canadienne de fabricants de panneaux de particules et faisant suite à une décision de l'Occupational Safety and Health Association (OSHA), Uniboard Canada Inc., division St-Laurent et Panneaux Vicply sont maintenant dans l'obligation de fournir à tous leurs clients américains une copie de fiches signalétiques ainsi qu'un avertissement sur la présence de poussière de bois à l'intérieur de tous leurs produits. Uniboard Canada Inc. et sa division de St-Laurent et Panneaux Vicply ont décidé d'étendre cette pratique à toute leur clientèle.

L'OSHA exige que ces documents accompagnent la première facturation à un client.

Vous trouverez donc ci-joint, une copie de l'avertissement sur le contenu en poussière de bois et une copie de la fiche signalétique. Si vous avez à distribuer notre matériel, nous vous recommandons de fournir lesdits documents à vos clients.

Nous vous remercions à l'avance de votre collaboration et n'hésitez pas à communiquer avec nous pour tous renseignements supplémentaires.

MICHEL VARIN
 Surintendant, Ventes et Production

As a member of the Canadian Particleboard Association and following a decision rendered by the Occupational Safety and Health Association (OSHA), Uniboard Canada Inc., St. Laurent division and Panneaux Vicply Inc. will, as of now, provide all their American clients with a copy of the material safety data sheets and a note indicating the level of wood dust inside all our products. Uniboard Canada Inc., St. Laurent division and Panneaux Vicply Inc. have decided to extend this procedure to all their customers.

The Occupational Safety and Health Association requires that all documents be attached to the first invoice forwarded to our customers.

We are therefore enclosing hereto, a copy of the note indicating the level of wood dust in our products and a copy of the material safety data sheet. If our material has to be distributed, we recommend that you transmit a copy of these documents to your customers.

Thank you for your cooperation and please do not hesitate to contact us for more details.

MICHEL VARIN
 Sales and Production Superintendent

+
MELAMINE

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PRODUCT: Particleboard
PRODUCT NAME: Forpan

WOOD DUST**CAUTION!**

SAWING, SANDING OR MACHINING WOOD PRODUCTS CAN PRODUCE WOOD DUST WHICH CAN CAUSE A FLAMMABLE OR EXPLOSIVE HAZARD.

WOOD DUST MAY CAUSE LUNG, UPPER RESPIRATORY TRACT, EYE AND SKIN IRRITATION. SOME WOOD SPECIES MAY CAUSE DERMATITIS AND/OR RESPIRATORY ALLERGIC EFFECTS.

- Avoid dust contact with ignition source.
- Sweep or vacuum dust for recovery or disposal.
- Avoid prolonged or repeated breathing of wood dust in air.
- Avoid dust contact with eyes and skin.

FIRST AID: If inhaled, remove to fresh air. In case of contact, flush eyes and skin with water. If irritation persists, call a physician.

For additional information, see the Material Safety Data Sheet.