Safety Data Sheet

MDF

SECTION 1 – IDENTIFICATION

Product identifier: MDF
Other means of identification: Not applicable
Recommended use: Construction material.

Supplier's details:

Uniboard, Mont-Laurier division

845 Rue Jean-Baptiste-Reid
Mont-Laurier, QC, Canada, J9L 3W3
Phone : (819) 623-7133

Emergency phone numbers:

+1 800 463-5060 (Québec antipoison center)

or call your local Emergency Health Services Center.

SECTION 2 – HAZARD IDENTIFICATION

Classification:

Not regulated

Signal word: **None**

Hazard statement: **None**

Precautionary statement: **None**

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion range %
Wood	N/A	76 – 83
Siriono N5000	N/A	14 – 18
Diisocyanate	101-68-8	2 – 5
Wax	8002-74-2	0.7 – 1.2

SECTION 4 – FIRST-AID MEASURES

Description of necessary First-aid measures:

Eyes: Rinse eyes thoroughly with water for at least 20 minutes. Remove contact lenses if it is possible to do so easily. If irritation persists, consult a physician.

Skin: Rinse skin with water.

Inhalation: In case of inhalation, move the person to a ventilated area. Call the poison control center or doctor if you feel unwell. If the person does not breathe, give him artificial respiration.

Ingestion: Rinse mouth with water. Improbable, do not induce vomiting. Call the poison control center or doctor if you feel unwell.

Most important symptoms/effects, acute and delayed:

Eyes: Fine particles can cause irritation and / or eye damage.

Skin: May cause irritation in case of pre-existing sensitivity.

Inhalation: Fine particles can cause irritation of the airways including dryness of the nose, throat or trachea. Cases of coughing, sinusitis, sneezing, wheezing and prolonged colds have been reported and related to the presence of wood dust.

Ingestion: Unlikely. If ingested in large quantities, the product may cause gastrointestinal obstruction.

Indication of immediate medical attention and special treatment needed, if necessary:

Get medical aid immediately if symptoms of irritation or by inhalation or by ingestion occur. Treatments are based on symptoms.

SECTION 5 – FIRE-FIGHTING MEASURES

Flammability:

The product is combustible. Wood dust can form an explosive mixture with air under the right circumstances and at the right concentrations.

Suitable extinguishing media:

Water, chemical powder, carbon dioxide (CO_2), sand, etc.

Combustion products:

Carbon oxides, aldehydes, ketones, organic acids, nitrogen oxides and alcohols.

Special protective actions for fire-fighters:

Treat like a wood fire.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Unlikely in its current state, however dust can be problematic.

Environmental precautions:

Not applicable

Methods and material for containment and cleaning up:

Sweep or vacuum regularly to avoid high dust concentrations

SECTION 7 – HANDLING AND STORAGE

Precaution for safe handling:

Handle according to the task. Wear all necessary personal protective equipment. Practice good industrial hygiene habits.

Conditions for safe storage:

It is recommended to store this product at room temperature in a dry place.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Name	CAS	Exposure limits
Wood	N/A	OSHA PEL: TWA 15.0 mg/m^3 (total dust); 5.0 mg/m^3 (respirable) ACGIH TLV: TWA 1.0 mg/m^3 (some foliage); 5.0 mg/m^3 (resinous) ACGIH TLV: STEL 10.0 mg/m^3 (resinous) NIOSH REL: TWA 1.0 mg/m^3 Ontario (2005): TWA soft wood 1.0 mg/m^3 (total dust) ; hard wood 5.0 mg/m^3 British Columbia (1997): 1.0 mg/m^3 K1 Quebec RQMT (2005): VEMP 5.0 mg/m^3 (total dust)
Siriono N5000	N/A	N/A
Diisocyanate	101-68-8	N/A
Wax	8002-74-2	N/A

Appropriate engineering controls:

Provide adequate exhaust ventilation and exhaust ventilation to maintain dust concentrations below 40 grams per m^3 of air.

Individual protection measures:

Eye/Face: Glasses with side shields to avoid eye contact.
Skin protection: Wear work gloves to avoid cuts, splinters or abrasions.
Respiratory protection: Choose appropriate respiratory protection according to levels and duration of exposure.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Properties	Values
Physical state:	Solid
Color:	Variable
Odor:	Wood odor
Melting point/Freezing point:	Not applicable
Boiling point:	Not applicable
Lower and upper flammability limits:	Lower: Class A - combustible material, 40 grams per cubic meter of air (Dust of wood). Upper: Not applicable
Flash point:	Data not available
Auto-ignition temperature:	Variable, 218 °C to 246 °C (424.4 °F to 474.8 °F)
pH:	Not applicable
Solubility:	Insoluble

SECTION 10 – STABILITY AND REACTIVITY

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None expected.

Conditions to avoid:
High temperatures, high humidity, weak air exchange. In the case of wood dust, avoid contact with oxidizing agents and drying oils. Avoid the open flame. Products may ignite at temperatures exceeding 200 °C. Dust can form an explosive mixture with air under the right circumstances and at the right concentrations.

Incompatible materials:
Strong oxidizing agents, strong acids and bases.

Particle characteristics:
Carbon oxides, aldehydes, ketones, organic acids, nitrogen oxides and alcohols.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity:

Name	CAS	LD_{50} or LC_{50} Route of entry (species)	Value
Wood	N/A	N/A	N/A
Siriono N5000	N/A	N/A	N/A
Diisocyanate	101-68-8	LD_{50} : Oral (rat) LC_{50} : Inhalation (rat)	> 9200 mg/kg 2.24 mg/L (1 h)
Wax	8002-74-2	LD_{50} : Oral (rat) LC_{50} : Dermal (rabbit)	> 5000 mg/kg 3600 mg/kg

Skin corrosion/irritation:
Not applicable.

Serious eye damage/irritation:
Not applicable.

Respiratory or skin sensitisation:
Not applicable.

Gem cell mutagenicity:
Not applicable.

Carcinogenicity:
Not applicable.

Reproductive toxicity:
Not applicable.

Specific target organ toxicity (STOT) – Single exposure:
Not applicable.

STOT – Repeated exposure:
Not applicable.

Aspiration hazard:
Not applicable.

Information on likely route of exposure:
Skin, eye and inhalation

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity:

Name	CAS	Results	Species	Period
Wood	N/A	N/A	N/A	N/A
Siriono N5000	N/A	N/A	N/A	N/A
Diisocyanate	101-68-8	EC_{50} : 0.35 mg/L	Daphnia magna	24 h
Wax	8002-74-2	N/A	N/A	N/A

Persistence and degradability:
Not subject to biodegradation.

Bioaccumulative potential:
None.

Mobility in soil:
Data not available.

Other adverse effects:
No effects on the environment are expected. However, products containing diisocyanate are recognized for their bioaccumulation effect in some aquatic species.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal methods:
Dispose of this product in accordance with applicable federal, state and local laws. Store product residues in prescribed containers. Place containers in hazardous chemical waste storage areas.

SECTION 14 – TRANSPORT INFORMATION

Classification DOT/IMDG/IATA:
DOT (Shipping name): Not regulated
UN Number: N/A
Class: N/A
Packaging group: N/A

SECTION 15 – REGULATORY INFORMATION

CANADA:
WHMIS (Canada):

Not controlled

UNITED STATES:
NFPA classification:

Health: 0
Flammable: 0
Reactivity: 0
Specials conditions: None

Legend: 4: Severe, 3: High, 2: Moderate, 1: Slightly, 0: Not hazardous

United States regulations:

California proposition 65 requirements:

Caution: Drilling, sawing, sanding or machining wood products creates wood dust, a known cancer-causing substance in the state of California. Avoid inhaling wood dust or use a dust mask or other personal protection.

Occupational Safety and Health Administration :

Wood products are not considered dangerous goods under the criteria set out in OSHA's Hazard Communication Standard 29 CFR 1910.1200. However, formaldehyde emissions and wood dust produced by sawing, sanding, or machining panels can be dangerous. This product contains formaldehyde.

Department of Housing and Urban Development :

United States Department of Housing and Urban Development (HUD) 24 CFR 3280 sets emission standards and issues third-party certification for particle board and particle board. formaldehyde emissions from MDF panels.

REACH Classification (EU):

ESIS - European chemical Substances Information System : Not regulated

REACH - Registration, Evaluation, Authorisation and Restriction of Chemical substances : Not regulated

List of Registered Phase-in Substances:

EC No.	CAS RN	Nom de Substance	Full	OSII	TII
202-966-0	101-68-8	Diisocyanate	-		
232-315-6	8002-74-2	Wax	-		

Full	Indicates registration under REACH Article 10 as a full dossier.
OSII	Indicates registration under REACH Article 17 as an on-site isolated intermediate (OSII).
TII	Indicates registration under REACH Article 18 as a transported isolated intermediate (TII).
'Yes'	Indicates the substance registration under REACH is complete.
'In Process'	Indicates a dossier on the substance has been successfully submitted to ECHA and is being processed, i.e. the completeness check is pending (and could potentially be unsuccessful).

SECTION 16 – OTHER INFORMATION

Date of preparation: October 20th 2017
Version: 1
Elaborated by: Toxyscan inc., 1-866-780-0599

References:

- Répertoire toxicologique of la Commission des normes, de l'équité, de la santé et de la sécurité du travail.
- Registry of Toxic effects of Chemical Substances of the Canadian Centre for Occupational Health and Safety.
- Canadian Transport of Dangerous Goods.
- The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) http://www.hc-sc.gc.ca/a
- Material safety data sheet from the manufacturer.
- ECHA: European chemicals agency.

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