

NuGreen MDF

Section 1. Identification

Common name: NuGreen MDF
Grade: NuGreen MR50, NuGreen 0
Synonym: MDF panels
Material uses: Furniture, cabinets, finishing

Supplier / Manufacturer:

Uniboard Canada Inc.
5555 Rue Ernest-Cormier
Laval
Québec, Canada, H7C2S9
Phone: 450-664-6000

In case of emergency:

450-664-6000

Section 2. Hazards identifications

Very important: This product is not dangerous in the form in which it is shipped by the manufacturer, but can become dangerous through downstream activities (for example, grinding, sanding, cutting, spraying) that reduce its particle size. These hazards are described below.

The classifications below are based on wood dust and the polymer component.

Classification:



Combustible dust
Respiratory sensitization, Category 1
Skin sensitization, Category 1
Carcinogenicity, Category 2
Specific target organ toxicity - Repeated exposure, Category 2

Signal word: Danger

Hazard statements:

H317: May cause an allergic skin reaction.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351: Suspected of causing cancer.
H373: May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P284: Wear respiratory protection.
P302+P352: IF ON SKIN: Wash with plenty of water and soap.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P314: Get medical advice/attention if you feel unwell.
P321: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
P333+P313: If skin irritation or a rash occurs: Get medical advice/attention.
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
P501: Dispose of contents / container by a local waste disposal company according to regional regulations.

Section 3. Composition and information on ingredients

Name	CAS	Concentration %
Wood (woody fibres)	N/A	85 - 94
Methylene diphenyl 4,4'-diisocyanate	101-68-8	2 - 5
Paraffin waxes	64742-61-6	0.7 - 1.2
Urea	57-13-6	0.3 - 0.8

Section 4. First aid measures

Description of first aid if required:

In solid form, classification, health hazards and first aid measures are most unlikely. In case of fine particles and dust from secondary transformation exposure, apply the following:

Eye contact:

Rinse eyes thoroughly with water for at least 15 minutes.

Skin contact:

Wash with plenty of water and soap.

Inhalation:

Bring the conscious victim to fresh air.

Ingestion:

Do NOT induce vomiting.

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

Treat symptomatically

Most important acute symptoms and effects:

No known acute effects and/or symptoms.

Most important delayed symptoms and effects:

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

Section 5. Firefighting measures

Flammability of the product:

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

Flash point:

N/A

Auto-ignition temperature:

218°C / 424°F - 246°C / 475°F (variable)

Products of combustion:

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

Special protective actions for fire-fighters:

Wear self-contained breathing apparatus and appropriate protective clothing.

Suitable extinguishing media:

Water spray, Carbon dioxide, Dry Chemical, Dry sand.

Specific hazard arising from the chemical:

Product base is wood fibres. Product is combustible. It will burn if involved in a fire. Wood dusts may form an explosive mix with air in the right circumstances and concentrations.

Section 6. Accidental release measures

Product poses no accidental spill hazards.

Personal precautions, protective equipment and emergency procedures:**For non emergency personnel:** Evacuate the area.**For emergency personnel:** Wear appropriate protective equipment (see section 8)**Environmental precautions:**

Not applicable

Methods and material for containment and cleaning up:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Broom and vacuum cleaner for dust.

Section 7. Handling and storage**Precautions in Handling:**

Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes.

Precautions in Storage:

Keep container tightly closed in a cool and well-ventilated place. It must be stored in a place where the ambient temperature and humidity are close to the values at which the product will be used.

Section 8. Exposure Controls, Personal Protections**Control parameters:**

Component	CAS	Value	Control parameters	Basis
Wood (woody fibres)	N/A	TWA	5.0 mg/m ³	Québec RQMT
		TWA	15.0 mg/m ³	OSHA
		TWA	5.0 mg/m ³ (inhalable fraction)	OSHA
Methylene diphenyl 4,4'-diisocyanate	101-68-8	TWA	0.005 ppm	ACGIH
Paraffin waxes	64742-61-6	TWA	2 mg/m ³	CNESST
		TWA	2 mg/m ³	ACGIH

Engineering controls:

Ensure adequate ventilation and a good air outlet in order to keep contaminant concentrations below the permitted exposure limits. It is essential to consider the nature and the dangerousness (explosiveness) of wood dust in the process of selecting control systems.

Personal protective equipment:

Eyes: Wear safety glasses with side shields.

Skin/body: Wear standard work clothes to prevent abrasion.

Respiratory: If ventilation is insufficient, choose appropriate respiratory protection according to levels and duration of exposure.

Hands: Wear work gloves to avoid cuts, splinters or abrasions.

Other: An emergency eye and body wash must be available on site.

Section 9. Physical and chemical properties

Physical state: Solid

Color: Variable

Odour: Wood

Melting point/Freezing point: Data not available

Boiling point: Data not available

Appearance: Panels

Flash point: Data not available

Auto-ignition temperature: 218°C / 424.4°F - 246°C / 475°F (variable)

pH: Data not available

Solubility: Insoluble

Density: Data not available

Section 10. Stability and reactivity

Chemical reactivity: Stable under recommended storage conditions.

Conditions to avoid: Open flames, high temperatures, excessive humidity

Incompatible materials: Oxidizing agents, strong acids, strong bases

Hazardous decomposition products: Carbon oxides, nitrogen oxides, aldehydes, ketones, organic acids, alcohols

Section 11. Toxicological information**Acute toxicity:**

Component	CAS	Value
Methylene diphenyl 4,4'-diisocyanate	101-68-8	DL ₅₀ Oral: Rat = 9200 mg/kg CL ₅₀ Inhalation: Rat = 2.24 mg/L 1h
Paraffin waxes	64742-61-6	DL ₅₀ Oral: Rat > 5000 mg/kg DL ₅₀ Cutaneous: Rabbit = 4000 mg/kg
Urea	57-13-6	DL ₅₀ Oral: Rat = 8471 mg/kg DL ₅₀ Oral: Mouse = 11000 mg/kg

Skin corrosion/irritation:

Methylene diphenyl 4,4'-diisocyanate: Causes skin irritation

Serious eye damage/irritation:

Methylene diphenyl 4,4'-diisocyanate: Causes serious eye irritation

Respiratory or skin sensitisation:

Methylene diphenyl 4,4'-diisocyanate: May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled

Gem cell mutagenicity:

Not applicable

Carcinogenicity:

Methylene diphenyl 4,4'-diisocyanate: Suspected of causing cancer

Reproductive toxicity:

Not applicable

STOT- Single exposure:

Methylene diphenyl 4,4'-diisocyanate: May cause respiratory irritation

STOT- repeated exposure:

Methylene diphenyl 4,4'-diisocyanate: May cause damage to organs through prolonged or repeated exposure (respiratory system)

Aspiration hazard:

Not applicable

Information on likely route of exposure:

Not applicable

Section 12. Ecological information**Ecological data for aquatic environments:**

Component	CAS	Value
Methylene diphenyl 4,4'-diisocyanate	101-68-8	CE ₅₀ - Daphnia magna 0.35 mg/L - 24h
Urea	57-13-6	CL ₅₀ - Poecilia reticulata (guppy) 17500 mg/L - 96h CE ₅₀ - Daphnia magna 3910 mg/L - 48h

Persistence and degradability:

Data not available

Bioaccumulative potential:

Data not available

Mobility in soil:

Data not available

Other adverse effects:

Data not available

Section 13. Disposal considerations**Waste disposal:**

Dispose of the chemical waste is in conformity with the federal, provincial and local laws. Store the residues of the product in safe containers.

Section 14. Transportation information

No TDG/DOT/IMDG/IATA Classification

Section 15. Regulatory information

NFPA Classification:



Health: 0
Flammable: 0
Reactivity: 0
Specials conditions: 0

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

U.S. Federal regulations

California proposition 65 requirements: Piercing, sawing, sanding or shaping wood products creates wood dusts, a substance recognized for causing cancer according to the state of California. Avoid inhaling wood dusts or use a dust mask or other personal protection measures.

Section 16. Additional information

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2.1

Elaborated by:

Toxyscan inc.

Notice to reader:

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Références:

- *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.*
- *Material safety data sheet from the manufacturer.*
- *Hazardous Products Regulations (DORS/2015-17).*
- *Canadian Transport of Dangerous Goods.*
- *GHS (rev.8) (2019) globally harmonized system of classification and labeling of chemicals - United Nations*