



Plum Creek

Leaders In Environmental Forestry

Material Safety Data Sheet
MEDIUM DENSITY FIBERBOARD (MDF)²

QUICK IDENTIFIER

Manufacturer's Name	PLUM CREEK MDF, INC.	Emergency Telephone No.	(406) 892-6200
Address	500 12th Ave. West P.O. BOX 1990 Columbia Falls, MT 59912	Other Information Calls	(406) 892-6312
Signature of Person Responsible for Preparation	<i>Dona C. Jeffries</i>	Date Prepared	APRIL 1, 2000

SECTION 1 - IDENTITY

Common Name: (used on label) (Trade Name & Synonyms)	MDF ² ®, MEDIUM DENSITY FIBERBOARD	Cas No.	N/A
Chemical Name	N/A	Chemical Family	N/A
Formula	N/A		

SECTION 2 - HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical & common name(s))	%	Threshold Limit Value
SOFT WOOD DUST		5.0 mg/m ³
UREA - FORMALDEHYDE RESIN	*7-10%	0.75 ppm
*THIS PRODUCT MAY CONTAIN GREATER THAN 0.1% FORMALDEHYDE		
WAX (PARAFFIN)	<1%	2.0 mg/m ³
POST TREATMENT		
AMMONIA	<1%	25.0 ppm

* Some products are treated after manufacturing with ammonia to further reduce formaldehyde emissions.

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS (Fire & Explosion Data)

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	N/A	Vapor Pressure (mm Hg)	N/A
Percent Volatile by Volume (%)	N/A	Vapor Density (Air = 1)	N/A	Evaporation Rate (_____ = 1)	N/A
Solubility in Water	INSOLUBLE			Reactivity in Water	N/A
Appearance and Odor	LIGHT TAN-COLORED SOLID PANEL.				

Flash Point	N/A	Flammable Limits in Air % by Volume	Lower 40 g/m ³	Upper	Extinguisher Media	WATER, CO ₂ , SAND	Auto-Ignition Temperature	400° - 500° F
Special Fire Fighting Procedures	SATURATE BOARD WITH WATER AND MOVE TO A SECURE OUTSIDE STORAGE LOCATION. WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. AVOID BREATHING SMOKE.							
	DUST GENERATED FROM SAWING, SANDING OR MACHINING MAY CREATE A FIRE AND EXPLOSION HAZARD.							

Unusual Fire and Explosion Hazards

SECTION 4 - PHYSICAL HAZARDS

Stability Unstable Conditions to Avoid Stable Conditions to Avoid
 RELATIVE HUMIDITY AND TEMPERATURE AFFECT THE RATE OF FORMALDEHYDE AND AMMONIA EMISSIONS. PYROLYSIS MAY OCCUR AT LOWER TEMPERATURES.

Incompatibility (Materials to Avoid) STRONG OXIDIZING AGENTS, STRONG ACIDS

Hazardous Decomposition Products TOXIC FUMES AND GASES, INCLUDING CARBON MONOXIDE, ALDEHYDES AND ORGANIC ACIDS.

Hazardous Polymerization May Occur Will Not Occur Conditions to Avoid NONE

SECTION 5 - HEALTH HAZARDS

Threshold Limit Value 25.0 ppm TWA (AMMONIA); 35.0 ppm STEL (AMMONIA)

Signs and Symptoms of Exposure 1. Acute Overexposure IRRITATION OF SKIN, EYES, NOSE AND RESPIRATORY SYSTEM. SENSITIZATION OF THE SKIN AND RESPIRATORY SYSTEM

2. Chronic Overexposure THE E.P.A. HAS CLASSIFIED FORMALDEHYDE AS A PROBABLE HUMAN CARCINOGEN. WOOD DUST EXPOSURES HAVE BEEN ASSOCIATED WITH NASAL CANCER.

Medical Conditions Generally Aggravated by Exposure RESPIRATORY CONDITIONS OR ALLERGIES, SKIN CONDITIONS

Chemical Listed as Carcinogen or Potential Carcinogen	National Toxicology Program	Yes <input type="checkbox"/> No <input type="checkbox"/>	I.A.R.C. Monographs	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OSHA	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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OSHA Permissible Exposure Limit 0.75 ppm FORMALDEHYDE
50.0 ppm AMMONIA

ACGIH Threshold Other Exposure Limit Used 2.0 ppm STEL 0.5 ppm ACTION FORMALDEHYDE

Emergency and First Aid Procedures

- Inhalation EXPOSURE TO EXCESSIVE CONCENTRATIONS MAY CAUSE UNPLEASANT DEPOSITION IN THE NASAL PASSAGE RESULTING IN DRYNESS, COUGH AND HEADACHE. AVOID BREATHING DUST, REMOVE FROM EXPOSURE.
- Eyes MAY MECHANICALLY IRRITATE EYES RESULTING IN REDNESS OR WATERING. FLUSH WITH CLEAN WATER TO REMOVE PARTICLES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.
- Skin MAY ELICIT CONTACT DERMATITIS IN SENSITIZED INDIVIDUALS OR CAUSE ERYTHEMA FROM MECHANICAL IRRITATION. IF IRRITATION OR DERMATITIS DEVELOPS, SEEK MEDICAL ATTENTION.
- Ingestion N/A

SECTION 6 - SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) APPROVED DUST RESPIRATOR

Ventilation	Local Exhaust	RECOMMENDED	Mechanical (General)	RECOMMENDED	Special Other
Protective Gloves		RECOMMENDED	Eye Protection	SAFETY GLASSES AND/OR GOGGLES	
Other Protective Clothing or Equipment	PROTECTIVE OUTER LAYER MAY BE DESIRABLE IN EXTREMELY DUSTY AREAS.				

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage PROVIDE ADEQUATE VENTILATION. DETECTABLE LEVELS OF FORMALDEHYDE AND/OR AMMONIA VAPORS MAY BE RELEASED DURING STORAGE.

Other Precautions STORE IN A COOL, DRY PLACE AWAY FROM OPEN FLAME, SPARKS OR HOT SURFACES.

Steps to be Taken in Case Material is Released or Spilled VACUUM, SWEEP, OR SHOVEL TO MINIMIZE DUST GENERATION. PROVIDE ADEQUATE VENTILATION.

Waste Disposal Methods DISPOSE ACCORDING TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. RESINS USED IN GLUE FORMULATIONS CONTAIN FORMALDEHYDE