Section 1 - Identification Product and preparation information

Date revised: 2004-05-28

Tafilam
Melamine Panel, Laminated Particleboard, Decorative Panel
Melamine, aminoplast resin, Decorative Cover Urea-Formaldehyde Bonded Wood.
Furniture
Mixture
Cellulose, Wood

Section II - Hazardous ingredient

CHEMICAL IDENTITY	CAS NUMBER	PERCENT BY WEIGHT
Formaldehyde	50-00-0	<0.1%
Wood	none	85-95%

Physical state	
(room temperature)	Solid
Odor and appearance	Light to dark colored granular solid. Color and odor are dependent on the wood species and time since wood particles were generated.
Odor threshold	N/A
Boiling point	N/A
Freezing point	N/A
Percent volatile by volume	N/A
Specific gravity	Variable (Dependent on wood species and moisture content.)
Evaporation rate	N/A
Vapor pressure	N/A
Vapor density	N/A
pH	N/A
Solubility in H_2O (% by Wt.)	<0.1%
Section IV Fire and explosion haz	ard data
Condition of flammability	Open Flame
Extinguishing media	Water, Dry Chemical,CO ₂ , Sand
Hazardous combustion products	CO, CO ₂ , NH ₃ , Aliphatic Aldehydes, Rosin Acids, Terpenes
Special fire fighting procedures	Use water to wet down wood dust to reduce the

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Elash point	likelihood of ignition or dispersion of dust into the air. Firefighters should wear Chemical Cartridge Respirators approved for Formaldehyde and Organic Vapors.
Auto-ignition temperature	Variable (typically 400-500 F)
Unusual fire and explosion hazards	Particleboard does not present any unusual explosion hazard; however, wood dust as a result of sanding, sawing or similar operations may present a strong to severe explosion hazard if a dust cloud contacts an ignition source
Explosive Limits in Air	40 grams/m ³ (LEL)
Section V - Emergency and first aid	<u>d procedures</u>
Eye contact	Flush with water to remove dust particle. Get medical
Skin Contact	Wash affected area with soap and water. Get medical
Inhalation	Remove to fresh air. Seek medical attention if persistent
Ingestion	N/A
Section VI - Toxicological propertie	<u>s</u>
Route of entry	Skin contact [X] Skin absorption [] Eye contact [X] Inhalation [X] Ingestion []
Effects of acute exposure	Formaldehyde - vapor can cause severe irritation to nose, throat and windpipe. Tingling in the nose and back of throat occurs at about 2-3 ppm. Irritation of the eye may occurs at about 0.2 ppm for Formaldehyde vapor. Tingling of the eye occurs in most people at 2-3 ppm and tears from at 4-5 ppm. Profuse and intolerable tearing occurs about 10 ppm. Wood dust - may cause irritation to the eyes, mouth, throat and skin. It may also cause nasal dryness, irritation and obstruction. Various species of wood dust can elicit allergic contact dermatitis in sensitized individuals.
Effects of chronic exposure	Formaldehyde - 2A Carcinogen, suspected of carcinogenic potential for humans based on limited epidemiological evidence and on results of carcinogenic testing in animal studies. Chronic exposure may cause respiratory irritation, chronic obstruction of the airways

and impaired lung function.

Wood dust - depending on species, may cause dermatitis on prolonged, repetitive contact, may cause respiratory sensitization after prolonged exposure to elevated dust levels. 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 paranasal sinuses associated with exposure to wood dust. IRAC 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.

Chemical component	Ontario TWAEV	ACGIH TLV	OSHA PEL	ACTION LEVEL	OSHA STEL	OSHA TWA
Formaldehyde	1 ppm	0,3 ppm	0,75 ppm	0,5 ppm (OSHA)	2 ppm	1 ppm
Wood Dust	5 mg/m ³	5 mg/m ³	5 mg/m ³	NAV	5 mg/m ³	NAV

¹See important footnote below.

Irritancy	Both Formaldehyde and wood dust may cause irritation of skin, eyes, throat and nose.
Sensitization	Some reports suggest that formaldehyde may cause respiratory sensitization, such as asthma, and that pre- existing respiratory disorders may be aggravated by exposure.
Carcinogenicity	Formamaldehyde - IARC has classified Formaldehyde as 2A Carcinogen. California's Safe Drinking Water and Toxic Enforcement Act of 1986, commonly known as "Proposition 65" (Cal. Health and Safety Code SS 25249.5 - 25249.13) has recognized Formaldehyde as a chemical known to the state to cause cancer. Wood dust - IRAC classifies wood dust as a carcinogen to humans (Group 1).
Reproductive toxicity	There is one Soviet Report of menstrual disorders and secondary sterility in women exposed to Formaldehyde and some other chemicals.

¹ In <u>AFL-CIO v OSHA</u> 965 F. 2d 962 (11 th Cir. 1992), the court overturned OSHA's 1989 Air Contaminants Rule, including the specific PELs for wood dust that OSHA had established at that time. <u>The 1989 PELs were: TWA - 5,0 mg/m³: STEL (15 MIN,) - 10,0 mg/m³ (ALL SOFT AND HARD WOODS, EXCEPT WESTERN RED CEDAR): WESTERN RED CEDAR: TWA - 2,5 mg/m³.</u>

Wood dust is now officially regulated as an organic dust under the Particulate Not Otherwise Regulated (PNOR) or Inert or Nuisance Dust categories at PELs noted under Health Effects Information section of this MSDS. However <u>A NUMBER OF STATE HAVE</u> INCORPORATED PROVISIONS OF THE 1989 STANDARD IN THEIR STATE PLANS, ADDITIONALLY, OSHA HAS ANNOUNCED THAT IT MAY CITE COMPANIES UNDER THE OSHA ACT GENERAL DUTY CLAUSE UNDER APPROPRIATE CIRCUMSTANCES FOR NON-COMPLIANCE WITH THE 1989 PELS.

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Teratogencity	No human effect information known to Tafisa. No
Mutagenicity	effects seen in animal studies. Insufficient human or animal effect information. Positive effects seen in bacterial tests, and in isolated human and animal cells
Toxicologically synergistic products	None known to Tafisa.
Section VII - Reactivity Data	
Stability	Stable, temperature may increase the rate of emission of formaldehyde from Particleboard.
Condition to avoid	High temperatures, high humidity, low air exchange. For wood dust, avoid contact with oxidizing agents and drying oils. Avoid open flame. Products may ignite at temperatures in excess of 400 F.
Incompatible substances	Strong Acids, alkalis Oxidizing Agents.
Hazardous decomposition	nermal decomposition products include carbon monoxide, carbon dioxide, aliphatic Aldehydes, rosin acids, Terpenes, polycyclic aromatic hydrocarbons and organic acids.
	IN/A

Section VIII - Preventive measures

- Personal protective equipment:

Respiratory ProtectionNot applicable for product in purchased form. A
NIOSH/MSHA approved mask is recommended when
the allowable exposure limits may be exceeded.
Exemple: During cutting or sanding the product.Hand protection:Not required. Cloth, canvas, or leather gloves are

Not required. Cloth, canvas, or leather gloves are recommended.

Eye ProtectionNot applicable for product in purchased form. Safety
glasses are recommended for machining the product.Body ProtectionNot applicable for product in purchased form. Outer

ction Not applicable for product in purchased form. Outer garments maybe desirable when machining.

Work/Hygienic Practices If sanding or cutting the product follows good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation of this combustible material. Minimize blowdown or other practices which blowdown or other practices which generate high airborne dust concentration.

GENERALLY APPLICABLE CONTROL MEASURES

Local ExhaustIf sanding or cutting the product: provide local exhaust
as needed so that exposure limits are met.Mechanical (General)Provide general ventilation in processing and storage

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Special	areas as needed so that exposure limits are met. Self contained breathing apparatus (SCBA) recommended when fighting fire.
Special shipping requirements User's responsibility	Avoid contact with water. The information contained in this Material Safety Data Sheet is based on the experience of the occupational health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the users responsibility to determine if this information is suitable for their applications and to follow safety precautions as may be necessary. The user has the responsibility to make sure that this sheet is the most up-to-date issue. We will not be liable for any damages, losses, or injuries which may result from the reliance on any information contained herein. We also do not give any warranties regarding the accuracy of the information contained herein.

Additional information

ACGIH	American Conference of Government Industrial Hygienists
IARC	International Agency for Research on Cancer
LEL	Lower Explosion Limit
OSHA	Occupational Safety and health Administration
PEL	Permissible Exposure Limit
STEL	Short-term Exposure Limit (15 min.)
TLV	Threshold Limit Value
TWA	Time-weighed average (8 hours)
UEL	Upper Explosion Limit

<u>Disclaimer</u>

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