



PT. Redtroindo Nusantara

Jl. Veteran Tama Utara No. 8-9, Gresik, Jawa Timur - Indonesia Telp. : (031) 3971947 - 3971952 Fax : (031) 3972002

MATERIAL SAFETY DATA HANDLING SHEET

BIRCH PLYWOOD

Manufacturer Country	INDONESIAN		
Product Identification	Birch Plywood		
Synonyms	Betula Platiphyla White Birch	Interior, Melamin CARB 2	
Trade Name	White Birch		
Description	This panel product Contains Birch veneers bonded together, CARB 2 Melamin		
Potential airborne releases	Manual or mechanical cutting or abrasion process performed on the product can result in generation of wood dust		
Screw Driver Test	Screw 1" By Pilot Hole	112.0 Kg	Standard ASTM D1037
	Screw 1" No Pilot Hole	111.6 Kg	Standard ASTM D1037
	Screw 3/4" By Pilot Hole	78.9 Kg	Standard ASTM D1037
	Screw 3/4" No Pilot Hole	78.5 Kg	Standard ASTM D1037
Moisture Content	12 %		Oven Test
Thickness	T = ≤ 7.5 mm	± 0.2 mm	
	T = > 7.5 mm	± 0.5 mm	
PHYSICAL DATA		FIRE AND EXPLOSION DATA	
Boiling point	Not applicable	Flash point	Not applicable
Specific gravity (H20=1)	Less than 1	Auto ignition temperature	Not applicable (will depend upon duration of exposure to heat and other variables)
Vapor density	Not applicable	Explosive limits in air	See below under "Unusual fire and explosion hazards"
% Volatiles by volume	-0	Extinguishing media	Water ; carbon dioxide, sand.
Melting point	Not applicable	Special fire fighting procedures	None
Vapor pressure	Not appl	Unusual fire and explosion hazard	
Solubility in H20	Less than 0.1%	Sawing, sanding or machining can produce wood dust as a by product, which may present an explosion hazard if a dust cloud contacts. An airborne concentration of 40 grams of dust per cubic meter of air is often used as the LEL for wood dust	
(% by weight)		REACTIVITY DATA	
Evaporation rate	Not applicable	Conditions contributing to instability	Stable under normal conditions
Butyl acetate = 1	Not applicable	Incompatibility	Avoid Contact with oxidizing agents. Avoid open flame. Product may ignite in excess of 400 degf
PH		Hazardous	Thermal and/or thermal oxidative decomposition can produce Irritating and toxic fumes and gases,
		Decomposition products	
Appearance	White Color	Hazardous polymerization	Not applicable
HEALTH EFFECTS INFORMATION Exposure limits :			



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Formaldehyde	OSHA PEL-TWA 0.75 ppm	OSHA Pel – STEL .75 ppm	ACGIH TLV – CEILING 0.3 ppm
Wood dust	OSHA PEL – TWA 5 mg/m3	OSHA Pel – STEL 10 mg/m3	
Formaldehyde emission	< Allowed value 0.05 ppm	Eye contact	Wood dust can cause mechanical Irritation.
Skin contact	Various species of wood dust may evoke allergy. Contact dermatitis in sensitive individuals.	Burning	According to ISO/DIS 5660 tests, the toxicity index of fire effluents was small, but there are many compounds in smoke which can cause irritation to eyes, nose and throat
Ingestion	Not likely to occur	Inhalation of wood dust	Wood dust may cause nasal dryness, irritation and obstruction.
<p>Coughing, wheezing and sneezing; sinusitis and prolonged colds have also been reported. Depending on species, wood dust may cause dermatitis on prolonged, repetitive contact; may cause respiratory sensitization and/or Irritation. IARC classifies wood dust as a carcinogen to human (Group I). This classification is based primarily on IARC's evaluation of increased risk in the occurrence of aden carcinomas of the nasal cavities and Para nasal sinuses associated with exposure to wood dust. IARC did not find sufficient evidence to associate cancer of the oropharynx, hypo pharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust. Wood dust classification from ACGIH – Hard woods and softwoods (non-allergenic); A4 irritation, Mucostasis" except Birch and Oak.</p>			
PRECAUTIONS, SAFE HANDLING		In higher temperature (>212 degrees f.) there may build up noxious gases. Provide adequate ventilation.	
GENERALLY APPLICABLE CONTROL MEASURES		Provide adequate general and local exhaust ventilation to keep airborne contaminant concentration levels below the OSHA PELS.	
<p>Personal protective equipment. Wear goggles or safety glasses when manufacturing or machining the product. Wear NIOSH/MSHA approved respirator when the allowable exposure limits may be exceeded. Other protective equipment such as gloves and outer garments may be needed depending on dust conditions.</p>			
EMERGENCY AND FIRST AID PROCEDURES			
Eyes	Flush eyes with large amounts of water. Enable fresh air environment. If irritation persists, get medical attention.		
Skin	Wash affected areas with soap and water. Got medical advice if rash or persistent irritation or dermatitis occurs.		
Inhalation	Remove to fresh air. Get medical advice if persistent irritation, severe coughing or breathing difficulty occurs.		
Ingestion	Not applicable		
IMPORTANT :	Information contained in the Material Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources belied to be accurate or otherwise technically correct. It is the user's responsibility to determine if this information is suitable for their application 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.		