



SAMPOERNA KAYOE

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

- Product Name : Plywood
- Glue : Type 2
- Emission : Carb Phase 2 (Formaldehyde Emission Level Max 0.05 PPM)
- Trade Name : Birch Plywood, Palembang Plywood, Gmelina Plywood.

2. PHYSICAL DESCRIPTION/PROPERTIES

- **Appearance**
The products are manufactured as pressed boards ranging in thickness from 2.5-25.0 mm. The log is peeled into sheets of veneer which are then cut to the desired dimensions, dried, patched, glued together and then pressed under high temperature press to form the plywood panel.
- **Odor**
No distinctive odor. Recently manufactured plywood and freshly machined surfaces tend to have odor of the wood species from which the plywood is made.
- **Boiling Point** : Not applicable
- **Vapor Pressure** : Not applicable
- **Vapor Density** : Not applicable
- **Melting Point** : Not applicable
- **Solubility in Water** : Highly insoluble
- **Flashpoint** : Not applicable
- **Specific Gravity** : < 1 (Estimated)
- **Flammability in air** : Fine airborne wood dust, generated during machining of the product, can spontaneously ignite.

3. INGREDIENTS

Substance/Chemical Entity	Proportion by weight
Wood Veneer	92%
Urea Formaldehyde Resin	8%

4. HEALTH HAZARD INFORMATION

- **Health Effects**
Plywood is not classified as hazardous, but splinters can be caused by the handling of panel.
- **Cured Resin**
The cured resin not likely to contribute to health effects.
- **Formaldehyde**
Formaldehyde is a naturally occurring gas that is irritating to the nose, throat, eyes and skin at high concentrations. It is recommended that storages areas be well ventilated to avoid any irritations due to buildup of formaldehyde. The International Agency for Research on Cancer (IARC), a division of the World Health Organization has reclassified formaldehyde from a group 1 suspected carcinogen to humans. (Cancer causing properties of formaldehyde are only evident at very high concentrations, hundred times greater than level emitted from plywood products).
- **Wood dust**
When the board are machined (sawn, sanded, drilled etc.) wood dust is produced. Wood dust and splinter may cause irritation to the nose, throat, eyes and skin. The wood dusts may also be sensitizer and some people may develop allergic dermatitis or asthma. Inhalation of wood dust may increase the risk of nasal and Para nasal sinus cancer. Exposure to the wood dust produced through machining may result in the following health effect.

5. FIRST AID PROCEDURES

- **Ingestion**
Swallowing wood dust may result in abdominal discomfort, drink a glass of water.
- **Eye Contact**
Rinse with running water for at least 15 minutes, and if symptoms persist seek immediate medical attention. If wearing contact lenses, remove only after initial rinse and continue rinsing eyes for at least 15 minutes. Consult to a medical if irritation still occur.
- **Skin Absorption**
Not known to occur under normal use. Use gentle soap and running water for cleaning.
- **Skin Contact**
In a case of skin contact, while wearing a safety gloves, carefully remove any contaminated clothing, including shoes, and wash skin thoroughly with mild soap and running water. Dust of certain species can elicit allergic contact dermatitis in sensitized individuals, as well as mechanical irritation resulting in erythema and hives. Seek medical help if rash, irritation or dermatitis persists.
- **Inhaled**
Dust may cause obstruction in the nasal passages, resulting in dryness of nose, dry cough, sneezing and headaches. Leave the dusty environment, clean nasal passages and remove to fresh air.

6. PRECAUTIONS FOR USE

- **Exposure Standards:**

STANDARD	MATERIAL	CAS Number	TWA (Time Weighted Average)	
			ppm	mg/m3
Regulation of the Minister of Health of the Republic of Indonesia No 70 of 2016	Formaldehyde	50-00-0	0,5	-
Regulation of the Minister of Manpower of the Republic of Indonesia No 5 of 2018	Wood, Dust from :	None	-	-
	a. Hardwood		-	1; A1
	b. Softwood		-	5

- **Engineering Controls**
All work with these boards should be carried out in such a way that wood dust production should be reduced. Machining should be performed under factory conditions with equipment fitted with exhaust devices capable of extracting wood dust done. Work areas should be well ventilated. They should be cleaned at least daily and wood dust should be removed by vacuum cleaning or by wet sweeping.
- **Skin Protection**
Not required if product is used as directed. Based on wood dust, wear protective clothing and gloves depending on the work environment.
- **Respiratory Protection**
Wear a minimum face mask with P100 cartridges to protect against wood dust and the relevant exposure requirements if the substance is disturbed.
- **Eye Protection**
Not required if product is used as directed. Wear safety glasses if dusty conditions exist depending on the work environment.

7. SAFE HANDLING INFORMATION

- **Handling and Storage**

Handling Precautions: No special handling procedures. Panel must be lifted by 2 people on edge with extra precautions to protect the panel.

Storage Precautions: Store in a well-ventilated, cool, dry place, away from ignition sources. Store flat, supported and protected from direct contact with the ground.

- **Spills and Disposals**

Follow safe solid waste disposal guidelines in accordance with local regulations. Off-cuts and general waste material should be placed in containers and disposed of at approved landfill sites, or burnt in an approved furnace or incinerator. Wood dust should be cleaned up by vacuuming or wet sweeping.

- **Fire / Explosion Hazard**

This product does not present any kind of emergency situations under regular use. A fire can be triggered when the substance is in contact with strong oxidizers or exposed to temperatures greater than 200 C. Fire smoke contains hazard chemicals such as carbon monoxide, aldehydes and other toxic materials.

CONTACT POINT

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