PT. GRESIK PRIMA UTAMA

POLYESTER PLYWOOD
MATERIAL SAFETY DATA SHEET

PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME	Polyester Plywood
SYNONYMS	Specially Processed Decorative Plywood
DESCRIPTION	This panel product contains a mixed light hardwood (MLH) veneer bonded each other using Urea glue resin with very low emission of formaldehyde, laminated with paper on face veneer, and on the surface of paper laminated board coated with unsaturated polyester resin
PRODUCT USE	Wall panelling, ceilings, interior panelling and draw linings. Limitation usage for use in wet areas or spaces with high relative humidity or for structural applications or exterior use.
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INGREDIENTS AND HAZARDS

Under normal use this product does not present any type of emergency conditions. If exposed to temperatures greater than 400 ^{o}F (204 ^{o}C) a fire may be caused. Smoke may contain hazardous chemicals such as carbon monoxide, aldehydes, styrene and other toxic materials.

This panel product contains a mixed light hardwood (MLH) and paper which bonded using urea glue resin with very low emission of formaldehyde and PVAc glue under heat and pressure, then on the surface of paper laminated board coated using unsaturated polyester resin. Product contains cured urea formaldehyde adhesives and polyester resins, which may release formaldehyde and styrene in trace, but limited detectable amounts. Release formaldehyde of 0.19 mg/m^2.h in Small Scale Chamber Test.

Hazards arise from remanufacture (sawing/drilling etc.), which will release wood dust and cured resins during this process.

Formaldehyde Gas	0.19 mg/m^2.h (classified as E1)
Styrene Gas	No data

Formaldehyde Release Classification (Testing Method EN 717-2: 1994):

CLASSIFICATION	FORMALDEHYDE CONCENTRATION
E1	≤ 3.5 mg/m^2.h
E2	> 3.5 mg/m^2.h to ≤ 8 mg/m^2.h

PHYSICAL DATA

SOLUBILITY IN WATER	Insoluble
APPEARANCE	White to dark. Color are dependent upon paper motive
ODOR	Dependent on wood species

FIRE AND EXPLOSION DATA

UNUSUAL FIRE AND EXPLOSION HAZARDS

Sawing, sanding or machining can produce wood dust as a by-product which may present an explosion hazard if a dust

cloud contacts an ignition source depending on particle size and moisture content. An airborne concentration of 40 grams of dust per cubic meter of air is often used as the lower explosive limit (LEL) of wood dust.

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	Water Spray, Carbon Dioxide Foam or Dry Chemical as determined by surrounding fire

PROTECTION FOR FIRE FIGHTERS	Self-contained breathing apparatus (SCBA) recommended when fighting fire.

REACTIVITY DATA

STABILITY	Stable under normal conditions.
CONDITION TO AVOID	*Formaldehyde*—First time exposure of product to high heat and elevated temperatures may result in release of very low gas emission (not hazardous for normal condition).

Wood Dust—Accumulation of wood dust in remanufacturing area may result in spontaneous heating or combustion.
212 ^{o}F (100 ^{o}C) has been suggested as the upper temperature limit for continuous exposure of wood without risk of ignition. For wood dust this temperature would be lower. Avoid contact with oxidizers and drying oils.

HEALTH HAZARDS

Exposure Limits of Chemistry Substance in Workplace Air (SNI−19−0232−2005):

COMPONENT	EXPOSURE LIMITS	
	mg/m^3	ppm
Wood Dust	1	0.1
Formaldehyde	0.37	0.3

TARGET ORGANS : Eyes, skin, and upper respiratory tract

SKIN AND EYE CONTACT Wood dust can cause eye irritation. Various wood species can elicit allergic contact dermatitis in sensitized individuals.

SKIN ABSORPTION Not known to occur

INHALATION May cause nasal dryness, irritation, and obstruction. Coughing, wheezing, and sneezing sinusitis and prolonged colds have also been reported. Allergic response, asthma or bronchitis may develop.

PRECAUTIONS

No special handling precautions required for product in purchase form. Avoid repeated or prolonged breathing of wood dust. These products may release very small quantities of formaldehyde and styrene in gaseous form. Store in a well-ventilated, cool, dry place away from open flame.

DISPOSAL CONSIDERATIONS

- Consult State Land Waste Management Authority for disposal
- Bury residue in an autorised landfill
- Recycle wherever possible or dispose of in an autorised landfill

EMERGENCY AND FIRST AID PROCEDURES	
EYES	Flush eyes with large amount of water. Remove to fresh air. If irritation persists, get medical attention.
SKIN	Wash affected areas with soap and water. Get 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	Consult physician.

DISCLAIMER

The information and data herein are believed to be accurate and have been compiled from sources believed reliable. It is offered for your consideration, investigation and verification. PT. Gresik Prima Utama makes no warranty of any kind, expressed or implied, concerning the accuracy or completeness of this information or data, and assumes no responsibility for its application to purchaser's intended purposes (if purchaser alters the product in such a manner as to create wood dust, then this is purchaser's responsibility). Normally recommended industrial hygiene, engineering practices and safe handling procedures should be employed at all times.