

# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY INDIFICATION

### 1.1. Product identifier

Paper base Phenolic laminates [YW-BA-PB]

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Mechanical and electronic components of the insulation panel

### 1.3. Manufacturer Information

Name : YOOWON Co. Ltd.  
Address : 554, Poseunggongdan sunhwan-ro, Poseungeup,  
Pyeongtacksi ,Kyeongkido(451-820), KOREA  
www.yoowon.co.kr  
Information call. : +82-31-681-9147  
Emergency call. : +82-31-681-9147

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

The industrial laminate is not a chemical product and therefore does not require a classification.  
This Safety Data Sheet is intended as a service to customers/users of the laminate.

### 2.2. Warning sign subsection with precautionary statement

- Hazard pictograms:  
Not Applicable
- Signal word:  
Not Applicable
- Hazard/Danger statements:  
H315 (grinded powder) can cause skin stimulation
- Precautionary statements:
  - 1) Precaution  
P261 Avoid breathing grinded powder  
P281 Wear proper protective equipments
  - 2) Maneuver  
Not Applicable
  - 3) Storage  
Not Applicable
  - 4) Disposal  
P501 Dispose of contents/container in accordance with local/regional/national/  
international regulation

### 2.3. Other hazards

The material does not constitute any health risk, but careless handling may cause skin abrasion.  
Dust from machining (e.g. milling, drilling, sawing, planing, grinding/polishing) may constitute minor health risks.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Composition

Cured phenol-formaldehyde resin on paper substrate.

### 3.2. Weight proportion(%)

COMPOSITION	CONTENT	CAS NO.
Paper(B.K.P)	55±5%	-
Phenolic-Formaldehyde resin	45±5%	9003-35-4
Release agent	negligible	-

## 4. FIRST AID MEASURES

### 4.1. Eye contact

Flush eyes well with copious quantities of water or normal saline. If irritation persists: Seek medical advice.

### 4.2. Skin contact

Remove clothes contaminated with dust. First rinse the skin with plenty of water and then wash the skin with soap and water.

### 4.3. Inhalation

If inhaled Move to fresh air. Keep under surveillance. If needed : Seek medical advice.

### 4.4. Ingestion

Not relevant.

### 4.5. Indication of immediate medical attention and notes for physician

Show this Safety Data Sheet to a physician or emergency ward.

## 5. FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

Water preferred, foam may be used.

### 5.2. Special hazards arising from the substance or mixture

Do not breathe smoke fumes: Carbon monoxide, alkylphenols, alkylbenzenes

### 5.3. Advice for firefighters

When entering burning area: Wear self contained breathing apparatus

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Not relevant.

### 6.2. Environmental precautions

Not relevant.

### 6.3. Methods and material for containment and cleaning up

Dampen dust with water. Then transfer material to a suitable container.

### 6.4. Reference to other sections

Not relevant.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

See 8.Exposure controls/Personal protection

### 7.2. Conditions for safe storage, including any incompatibilities

Clean and dry.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Occupational exposure limits : Comply with national and local regulations for dust exposure.

\*DNEL/\*\*PNEC : No \*\*\*CSR

\*DNEL : Derived No-Effect Level

\*\*PNEC : Predicted No-Effect Concentration

\*\*\*CSR : Chemical Safety Report

### 8.2. Appropriate engineering controls

Maintain sufficient local exhaust and ventilation when machining. Ventilated air should not be recycled.

### 8.3. Personal protective equipment

- Respiratory protection : If the local exhaust ventilation is insufficient when machining. Use an approved mask with a particle filter : Type P2. The filter has a limited lifetime and must be changed. Read the instruction.
- Eye protection : When machining, protect eyes from dust and flying chips with safety goggles.
- Hands protection : Gloves. Normally not required but may prevent skin abrasion during machining.
- Environmental exposure controls : None particular.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance :	Solid. Yellow, dark brown color sheets.
Odor :	Slight phenolic odour
Odor threshold :	No data available
pH :	No data available
Melting/freezing point(°C) :	No data available
Boiling point/range(°C) :	No data available
Flash point(°C) :	>200
Evaporation rate :	No data available
Flammability (solid, gas) :	No data available
Upper/lower flammability or explosive limits :	No data available
Vapor pressure :	No data available
Solubility in Water :	Negligible in water
Vapor density :	No data available
Relative density :	1.2~1.5
Partition coefficient: n-octanol/water :	No data available
Auto-ignition temperature(°C) :	No data available
Decomposition temperature :	No data available
Viscosity :	No data available
Molecular mass :	No data available

### 9.2. Other information

No data available

## 10. STABILITY AND REACTIVITY

### 10.1. Chemical stability and possibility of hazardous reactions

#### 10.1.1. Reactivity

Chemically inert. Does not attack other materials.

#### 10.1.2. Chemical stability

See 10.1.1.

#### 10.1.3. Possibility of hazardous reactions

See 10.1.1.

### 10.2. Conditions to avoid

Sensitivity to mechanical impact : Not sensitive.

Sensitivity to static discharge : Not sensitive. May build up static electricity during handling, depending upon the atmospheric conditions.

Dust explosion hazard : Machining dust may cause dust explosion when not prevented by proper precautions as e.g. exhaustion of dust and grounding of equipment.

Thermal decomposition : Will decompose as a function of temperature and time at temperatures above 120°C.

### 10.3. Incompatible materials

None

### 10.4. Hazardous decomposition products

See 5. Fire-fighting measures

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Not relevant for industrial laminate.

Information on likely routes of exposure : May be absorbed by inhalation (lungs).

Synergistic products : Tobacco smoke may enhance the effects of inhalation of machining dust.

#### Symptoms

Inhalation : Inhalation of large amounts of machining dust may cause acute respiratory problems such as asthma.

Skin : None.

Eyes : Dust may irritate.

Ingestion : Not relevant.

Chronic effects : Prolonged or frequent exposure may cause chronic respiratory problems if not prevented by personal protective measures and/or engineering controls such as local exhaust. When machining the laminate, small amounts of formaldehyde can be released.

Sensitization to product: Formaldehyde released by machining may cause sensitization (allergy).

Carcinogenicity of product: Formaldehyde is classified as carcinogenic to humans by IARC (Group 1).

\*IARC : International Agency for Research on Cancer

## 12. ECOLOGICAL INFORMATION

### 12.1. Aquatic and terrestrial ecotoxicity

Not applicable for industrial laminate.

#### 12.2. Persistence and degradability

Not relevant.

#### 12.3. Bioaccumulative potential

Not relevant.

#### 12.4. Mobility in soil

Not relevant.

#### 12.5. Other adverse effects

Not relevant.

### 13. DISPOSAL CONSIDERATIONS

#### 13.1. Disposal method

Comply with national and local regulations for inert waste. Recommended means of disposal are incineration or landfill.

EWC-Code : 17 02 03(Laminate)

### 14. TRANSPORT INFORMATION

Not dangerous goods according to ADR/RID.

14.1. UN number : None.

14.2. UN proper shipping name : None.

14.3. Transport hazard class : None.

14.4. Packing group : None.

14.5. Environmental hazards : None.

14.6. Special precautions for user : None.

### 15. REGULATION INFORMATION

#### 15.1. Restriction on application

Not intended for contact with foodstuffs or animal feed.

Not intended for prolonged skin contact.

Not intended for use in toys for children under 3 years of age.

Not intended for prolonged use at temperatures above 120°C.

### 16. OTHER INFORMATION

#### 16.1. Training advice

No special training is required. However, the user should be well instructed in the execution of the task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

#### 16.2. Other information

None.

#### 16.3. Revision number and data

Ver. 1-2 (31.May.2017)

#### 16.4. Other

Information contained herein, while accurate to the best of our knowledge, is intended as a health and safe guide and should not be construed as a warranty for any specific properties. However, as conditions of handling and use of this material are beyond our control, we can accept no liability for damages incurred by the use of this material.

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