

MATERIAL SAFETY DATA SHEET

泉電材株式会社 殿

MSDS NO. : FL-1033

Date : APR 23. 2011

1. PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's Name : FUTAMURA CHEMICAL CO.,LTD NAGOYA FACTOR
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 Person In Charge : YOSHIYUKI ISOBE PHENOL LAMINATES BOARD GROUP

PRODUCT NAME

Trade Name : FL-102 Black
 Classification : Paper based Phenolic Resin Laminated Sheets

2. PRODUCT IDENTIFICATION

Single product or Composite product : Compsite product

Chemical Name : Phenolic Resin Laminated Sheets

Ingredients : Bleached Kraft Paper 50±10%
 Phenolic Resin 50±10%

Formula : Third dimensions structure substance as phenol class and formaldehyde react.

3. CLASSIFICATION OF DANGEROUS AND HARMFUL

Danger : Not applicable
 Harm to the body : Not applicable
 Environmental effect : Not applicable
 Classification : Solid of flammability

4. FIRST-AID MEASURES

Inhalation : Immediately vomit and get medical attention.
 Skin Contact : Wash with plenty of water.
 Eye contact : Don't rub eyes. Gently rinse affected eyes with clean water and get medical attention
 Ingestion : Immediately vomit and get medical attention.

5. PRECAUTION FOR FIRE

Extinguishing method : It apply to combustibile fire and extinguish with oxygen, refrigeration and separation from combustibile materials
 Extinguishing materials : ABC TYPE powder chemical and air TYPE foam
 Extinguishing Advice : Fight a fire on the windward side.
 Don't come close because catch fire easily and smell.

MSDS NO. : FL- 1 0 3 3

6. RELEASE OR SPILL MEASURE

Body advice : Not applicable

Environmental advice : Collect and incineration

7. PRECAUTIONS IN HANDLING AND STORING

HANDLING

There is not toxicological information about basis materials.

During a cutting process , punching process and shearing process, it is recommended some Local exhaust ventilation. Wear the relevant protection safety glasses and dust mask.

Fire contact strict prohibition as there is dust explosion.

STORING ADVICE

Keep away from direct sunlight and hot place.(discoloration)

Keep away from moisture.(insulation deterioration)

Keep in cool, dry and well-ventilated area.

Don't open a wrapping.(prevention of impair the performances, or may cause camber or torsion)

8. EXPOSURE PREVENTION MEASURE

Exposure decrease measure: Equip local exhaust ventilation during cutting process ,
punching process and shearing process.**PROTECTION**

Respiratory protection : Dust mask

Hand protection : Gloves

Eye protection : Protective glasses

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance : Board

Color : Amber color

Odor : A faint phenolic smell

PH : Not applicable

Ignition point : 435°C

Density : 1.335

Solubility in water : Not applicable

Solubility in solvent : Not applicable

10. STABILITY AND REACTIVITY

Stable under normal condition because heat curing plastic.

Not reactive

Keep away from high temperatures and moisture, source ignition.

11. TOXICOLOGICAL INFORMATION

Not applicable

MSDS NO. : FL-1 0 3 3

12. ENVIRONMENTAL IMPACT INFORMATION

Decompositivity

- ① In case of continuous over 100℃ emit cracked gas(moisture, phenol and formaldehyde).
- ② In case of leave long time in water, soluble decomposition component (phenol, formaldehyde).

Is emitted

Bioaccumulation : Not applicable

Reproduction toxicity : Not applicable

Other : Phenolic Resin Laminated Sheets is approved by Japanese Standard of Food Additives

13. WASTE DISPOSAL

Dispose of the product as industrial waste in conformity with the specified method.

14. TRANSPORTATION INFORMATION

Avoid water leakage or rough handling to prevent packaging materials from tearing.

15. REGULATORY INFORMATION

Ensure this product in compliance with federal requirements and ensure deformity to local regulations.

16. OTHER INFORMATION

The data shown here are based on the technical information and are not intended to guarantee the quality. The contents may be revised as necessary according to new findings.