MATERIAL SAFETY DATA SHEET

MSDS NO.: FL-1033

Date: APR 23, 2011

1. PRODUCT AND COMPANY IDENTIFICATION

Manufacturer’s Name: FUTAMURA CHEMICAL CO., LTD NAGOYA FACTORY
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PRODUCT NAME
Trade Name: FL-102 Black
Classification: Paper based Phenolic Resin Laminated Sheets

2. PRODUCT IDENTIFICATION

Single product or Composite product: Composite 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 combustible fire and extinguish with oxygen, refrigeration and separation from combustible 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.
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
12. ENVIRONMENTAL IMPACT INFORMATION

Decomposivity
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.