1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Photopolymer printing plate "Printight"
Product Code: KF-G, KM-G, KA-G, KM-A
Supplier: TOYOBO Co., Ltd.
Address: 2-8 Dojima Hama 2-chome, Kita-Ku OSAKA 530-8230 JAPAN
Photo-Functional Materials Dept.
Telephone No.: +81-6-6348-3059 (9am-6pm Japan Standard Time Mon-Fri)
Fax No.: +81-6-6348-3099

Recommended use and restrictions on use: Printing Materials, Sign Plates, etc.

2 HAZARD IDENTIFICATION

Most Important Hazards:
Eye contact or skin contact with the material may cause some irritation.
The material contains small amount of hazardous ingredients or the ingredients of insufficient investigation of hazards.
Flammable with the existence of ignition sources.

Specific Hazards:
Prolonged inhalation of fumes or gases generated from the material during the processing operations may cause headache, respiratory irritation.

GHS classification
Physical and Chemical Hazards
- Explosives: Not applicable
- Combustible/flammable gases: Not applicable
- Combustible/flammable aerosols: Not applicable
- Combustion-supporting/oxidizing gases: Not applicable
- Gases under pressure: Not applicable
- Flammable liquids: Not applicable
- Combustible solids: Not classified
- Self-reactive substances and mixtures: Classification not possible
- Pyrophoric liquids: Not applicable
- Pyrophoric solids: Not classified
- Self-heating substances and mixtures: Classification not possible
- Substances and mixtures which, in contact with water emit flammable gases: Not classified
- Oxidizing liquids: Not applicable
- Oxidizing solids: Not classified
- Organic peroxides: Not classified
- Corrosive to metals: Not classified

Health Hazards
- Acute toxicity (Oral): Category 5
- Acute toxicity (Dermal): Classification not possible
- Acute toxicity (Gases): Classification not possible
2 HAZARD IDENTIFICATION (Continued.)

Acute toxicity (Vapors) Classification not possible
Acute toxicity (Dusts) Classification not possible
Acute toxicity (Mists) Classification not possible
Skin corrosion/irritation Not classified
Serious eye damage/eye irritation Category 2B
Respiratory or skin sensitization Classification not possible
Germ cell mutagenicity Not classified
Carcinogenicity Classification not possible
Reproductive toxicity Category 1B
Specific Target Organ Toxicity (Single Exposure) Category 1
(Central nervous system, Optic organ, Systemic toxicity)
Specific Target Organ Toxicity (Repeated Exposure) Classification not possible
(Central nervous system, Optic organ)
Hazards to the aquatic environment (Acute) Classification not possible
Hazards to the aquatic environment (Chronic) Classification not possible

GHS label elements

Pictogram or Symbol: 

Signal word: Danger

Hazard statement: May damage fertility or the unborn child.
Causes damage to central nervous system, optic organ, systemic toxicity.
Causes damage to central nervous system, optic organ through prolonged or repeated exposure.
May be harmful if swallowed. (oral)
Causes eye irritation.

Precautionary statement: (Prevention)

• Wear protective equipments.
• Use with adequate ventilation or local exhaust system.
• Wash hands thoroughly after handling.

(response)

• Inhalation: In case of irritation, remove victim to fresh air and await recovery. Seek immediate medical attention if irritation persists.
• Skin Contact: Wash the affected area thoroughly with water and soap. Seek medical attention if necessary.
• Eye Contact: Immediately flush eyes with plenty of clean water for at least 15 minutes. Seek medical attention if irritation persists.
• Ingestion: Rinse mouth with water. Seek immediate medical attention if indisposition persists.

(Storage)

• Keep the packages vertical, and not pile up. Pay attention not to fall them down.
• Store plates in a cool (< 25°C) and dry location. Put and store all the unexposed plates into the particular masking bag.

(Disposal)

• Dispose of in accordance with all applicable local and national laws/regulations.
3 COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Conc.</th>
<th>Chemical formula</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyamide</td>
<td>54~56%</td>
<td>Trade secret</td>
<td>-</td>
</tr>
<tr>
<td>Derivative of Acrylates</td>
<td>39~41%</td>
<td>Trade secret</td>
<td>-</td>
</tr>
<tr>
<td>Plasticizer</td>
<td>2~4%</td>
<td>Trade secret</td>
<td>-</td>
</tr>
<tr>
<td>Photo-initiator and other additives</td>
<td>1~3%</td>
<td>Trade secret</td>
<td>-</td>
</tr>
<tr>
<td>Methyl alcohol</td>
<td>&lt; 3%</td>
<td>CH₃OH</td>
<td>67-56-1</td>
</tr>
<tr>
<td>ε-caprolactam</td>
<td>&lt; 2%</td>
<td>C₆H₁₁NO</td>
<td>105-60-2</td>
</tr>
<tr>
<td>Methyl acrylate</td>
<td>&lt; 0.5%</td>
<td>C₄H₆O₂</td>
<td>96-33-3</td>
</tr>
<tr>
<td>Methyl methacrylate</td>
<td>&lt; 0.2%</td>
<td>C₅H₈O₂</td>
<td>80-62-6</td>
</tr>
</tbody>
</table>

4 FIRST-AID MEASURES

Inhalation: In case of irritation, remove victim to fresh air and await recovery. Seek immediate medical attention if irritation persists.

Skin Contact: Wash the affected area thoroughly with water and soap. Seek medical attention if necessary.

Eye Contact: Immediately flush eyes with plenty of clean water for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion: Rinse mouth with water. Seek immediate medical attention if indisposition persists.

5 FIRE-FIGHTING MEASURES

Extinguishing Media: Water Spray, Carbon Dioxide, Dry Chemical Powder

Specific Hazards: When burning, this product may emit harmful gas as carbon monoxide, nitrogen oxides, chlorine compounds and sulfur oxides, etc.

Specific Methods: Extinguish the fire from windward by water or carbon dioxide.

Protection of Firefighters: In case of a big fire, wear self-contained breathing apparatus and protective clothing.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: If the material contacts the body, wash the affected area thoroughly with water and soap. Wash-out solution remained on the skin may cause some irritation.

Environmental Precautions: The unexposed plate is soluble in water, that may pollute environment.

Methods for Cleaning up: Carefully pick up and collect the dropped plates. Wipe the area with a cloth containing soapy water to remove any adherent material. Remove all the spilt wash-out solution with absorbent.
7 HANDLING AND STORAGE

HANDLING
Technical Measures Wash hands thoroughly after handling. Pay attention not to contact skin and eyes with the plate material. Wear protective equipments.
Precautions Use with adequate ventilation or local exhaust system. Do not inhale fumes and gases. Do not contact skin and eyes with the wash-out solution.
Safe Handling Advice Handle with care not to get hurt to hands with outer case or edge of the plate.

STORAGE
Technical Measures Keep the packages vertical, and not pile up. Pay attention not to fall them down.
Incompatible Products Strong oxidizing materials
Keep away from water and alcohol in which the material is soluble.
Storage Conditions Store plates in a cool (< 25°C), and dry location, away from sources of intense heat and ignition. Put and store all the unexposed plates into the particular masking bag.
Packaging Materials Masking bag or corrugated board package

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING Use with adequate ventilation or local exhaust system. Ensure eyewash/safety shower stations are available near areas where the material is used.

PERSONAL PROTECTIVE EQUIPMENT
Respiratory Protection Suitable gas mask
Hand Protection Impervious rubber or plastic gloves
Eye Protection Safety glasses, goggles or face shield
Skin and Body Protection Impervious clothing

9 PHYSICAL AND CHEMICAL PROPERTIES
Physical State Solid sheet
Color Yellowish transparent
Odor Slightly sweet odor
pH 6.4 as washing-out solution
Melting Point 110°C
Flash Point Not available
Explosion Properties None
Relative density 1.2
Solubility Soluble in water and alcohol.
Autoignition point Not available
Decomposition point Not available
10 STABILITY AND REACTIVITY
Stability
Possible Hazardous Reactions
Conditions to Avoid
Material to Avoid
Hazardous Decomposition Products
Stable at ambient temperature
Flammable with the existence of ignition sources
High temperature, ignition sources, direct sunlight
Strong oxidizers
When burning, this product may emit harmful gas as carbon monoxide, nitrogen oxides, chlorine compounds and sulfur oxides, etc.

11 TOXICOLOGICAL INFORMATION
Acute toxicity (Oral)
Skin corrosion/irritation
Serious eye damage /eye irritation
Mutagenicity
Oral-Rat LDLo: > 2,000mg/kg
No irritation potential to the rabbit skin
Reversible and moderate irritation potential to the eyes of rabbits
No mutagenicity under the Ames test

12 ECOLOGICAL INFORMATION
Mobility
Unexposed plate and washed-out solution are soluble in water, and are possible to diffuse in watercourse.

13 DISPOSAL CONSIDERATIONS
Waste from Residues
Contaminated Packaging
Dispose of in accordance with all applicable local and national laws/regulations.
Dispose of as well as the material.

14 TRANSPORT INFORMATION
International Regulations
UN Classification Number
Specific Precautionary
Not classified
Keep it dry and handle with care.

15 REGULATORY INFORMATION
Follow all the laws and regulations in your country.

16 OTHER INFORMATION
Notice
The information in this SDS, to the best of our knowledge, is accurate and correct. However, TOYOBO makes no warranty and assumes no liability whatsoever in connection with any use of this information. The SDS is subject to revision as new information becomes available.