

**Product name: "Printight® " KF、KM、KM-A****1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name : Photopolymer printing plate "Printight® " KF、KM、KM-A

Supplier : TOYOBO Co.,Ltd  
Address : Osaka Umeda Twin Towers South,1-13-1 Umeda, Kita-Ku,  
OSAKA 530-0001, JAPAN

Contact : Photo-Functional Materials Dept.  
(TEL : +81-6-6348-3059,FAX : +81-6-6348-3099)

**2. HAZARD IDENTIFICATION**

## Important Hazards

## Physical and Chemical Hazards

Flammable with the existence of ignition sources

## Health Hazards

May be harmful if swallowed.(oral)

Eye contact or skin contact with the material may cause some irritation.

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

Get medical advice / attention if you feel unwell.

In case of contact with eyes, continue washing with water for several minutes.

## Hazards to the environment

Harmful to aquatic life.

## Precaution :

There is a risk that harmful gases such as carbon monoxide and nitrogen oxides may be generated at high temperatures such as combustion.

## GHS classification

Outside the scope of GHS for article.

**3. COMPOSITION**

Chemical Product : Article

Mixture	Content	CAS.No.	Chemical formula
Substrate (Polyester or Steel)	25-75%	Not applicable	—
Polyamide	10-30%	Trade secret	Trade secret
Derivative of Acrylates	8-22%	Trade secret	Trade secret
Polyester coverfilm	5-15%	25038-59-9	(C <sub>10</sub> H <sub>8</sub> O <sub>4</sub> ) <sub>n</sub>
plastiizer	< 2%	Trade secret	Trade secret
Photo-initiator and other additives	< 1.5%	Trade secret	Trade secret
Methyl alcohol	< 2%	67-56-1	CH <sub>4</sub> O
Caprolactam	< 1.5%	105-60-2	C <sub>6</sub> H <sub>11</sub> NO

Product name: "Printight® " KF、KM、KM – A

**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	Not specifically stated
Environmental Precautions	The unexposed plate is soluble in water, that may pollute environment.

**7. HANDLING AND STORAGE**

## Handling

Technical Measures :	Wash hands thoroughly after handling. Although it is not flammable at room temperature, it is a combustible material designated by the Fire Service Act and does not use fire in the vicinity. Do not touch melt or high temperature resin directly. Since static electricity may be generated during processing, install a static eliminator.
Local exhaust or general ventilation :	Provide local exhaust ventilation or general ventilation.
Precautions for safe handling :	Avoid inhalation of fume. Do not take food, drink and smoking while handling. Avoid strong oxidizing compound contact.
Waste from Residues:	Dispose of in accordance with all applicable local and national laws/regulations.

**Product name: "Printight® " KF、KM、KM – A****Storage**

Appropriate storage conditions :

Keep away from fire and heat sources.  
Avoid wind and rain and direct sunlight.

Safe materials for packaging containers :

Black polyethylene bag with light shielding properties and cardboard packaging.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Engineering Measures**

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

**Protective equipment**

Respiratory protection : Wear a protective mask if smell or gas is generated.

Hand protection : Impervious rubber or plastic gloves  
Wear cut-resistant gloves and working clothes when handling metal base plate.

Eye protection : Wear protective glasses when handling liquid.

Skin and body : Wear protective clothes when handling melting plate.

**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 : Stable at ambient temperature

**Possible Hazardous Reactions**

Flammable with the existence of ignition sources

Conditions to Avoid : High temperature, ignition sources, direct sun-light

Material to Avoid : Strong oxidizers

**Hazardous Decomposition Products**

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

Product name: "Printight® " KF、KM、KM – A

---

## 11. TOXICOLOGICAL INFORMATION

### Article

Since the product is an article, the GHS classification is out of the scope of application, and there is no hazard in normal use.

Acute toxicity (Oral) :	Oral-rat LDLo:> 2000 mg/kg
Skin corrosion/irritation :	No irritation potential to the rabbit skin
Serious eye damage/eye irritation :	Reversible and moderate irritation potential to the eyes of rabbits.
Respiratory or skin sensitization :	No data available
Reproductive cell mutagenicity:	AMES test: negative
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity(single exposure):	No data available
Specific target organ toxicity(repeated exposure):	No data available
Aspiration hazard:	No data available

### Ingredient

Since the product is an article, the GHS classification is out of the scope. It is not hazardous as a chemical in normal use, but provides information about the components of the mixture.

Acute toxicity :	Oral-rat LDLo:> 2000 mg/kg (Methyl alcohol)
Skin corrosion/irritation :	It is considered to have mild irritation to the rabbit skin. (Caprolactam)
Serious eye damage/eye irritation :	Reversible and moderate irritation potential to the eyes of rabbits. (Caprolactam, Methyl alcohol)
Respiratory or skin sensitization :	No data available
Reproductive cell mutagenicity:	AMES test: negative(Methyl alcohol)
Carcinogenicity:	No data available
Reproductive toxicity:	Based on the NITE GHS classification results.(Methyl alcohol)
STOT-single exposure:	Based on the NITE GHS classification results. (Caprolactam)
STOT-repeated exposure:	Based on the NITE GHS classification results. (Caprolactam)
Aspiration hazard:	No data available

---

## 12. ECOLOGICAL INFORMATION

GHS Classification:	Not classified
Mobility	Unexposed plate and washed-out solution are soluble in water, and are possible to diffuse in watercourse.

---



## Safety Data Sheet

SDS No. 374F  
Issue date: May 2,2022Product name: "Printight® " KF、KM、KM – A

---

**13. DISPOSAL CONSIDERATIONS**

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

---

**14. TRANSPORT INFORMATION**

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

---

**15. REGULATORY INFORMATION**

Follow all of the laws and regulations in your country.

ENCS (JAPAN):	None
TSCA (USA):	None
Proposition 65:	It was demonstrated that worker exposures to Prop 65 chemicals did not exceed their respective safe harbor MADLs/NSRLs.

---

**16. OTHER INFORMATION**

Notice : The information in this sheets, 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 information is subject to revision as new information becomes available.