

First issue: June 10, 2004 Revised: August 6, 2014 SDS No. 374F

Safety Data Sheet

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.

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Photo-Functional Materials Dept.

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Recommended use and Printing Materials, Sign Plates, etc.

restrictions on use

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
Oxidizing solids
Organic peroxides
Corrosive to metals

Not applicable
Not classified
Not classified
Not classified

Health Hazards

Acute toxicity (Oral) Category 5

Acute toxicity (Dermal) Classification not possible
Acute toxicity (Gases) Classification not possible



Classification not possible Classification not possible

Classification not possible

Classification not possible

Classification not possible

Not classified

Category 2B

Not classified

Category 1B

Category 1

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2 HAZARD IDENTIFICATION (Continued.)

Acute toxicity (Vapors)
Acute toxicity (Dusts)
Acute toxicity (Mists)

Skin corrosion/irritation

Serious eye damage/eye irritation

Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific Target Organ Toxicity (Single Exposure)

(Central nervous system, Optic organ, Systemic toxicity)

Category 1

(Central nervous system, Optic organ)

Classification not possible Classification not possible

Specific Target Organ Toxicity (Repeated Exposure)

Hazards to the aquatic environment (Acute) Hazards to the aquatic environment (Chronic)

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 ($< 25^{\circ}$ 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.





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3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Product	Article		
Chemical identity, identification number	Water soluble photo-sensitive resin		
Chemical Name	Conc.	Chemical formula	CAS No.
Polyamide	54~56%	Trade secret	-
Derivative of Acrylates	39~41%	Trade secret	-
Plasticizer	2~4%	Trade secret	-
Photo-initiator and other additives	1~3%	Trade secret	-
Methyl alcohol	< 3%	$\mathrm{CH_{3}OH}$	67-56-1
ε -caprolactam	< 2%	$C_6H_{11}NO$	105-60-2
Methyl acrylate	< 0.5%	$C_4H_6O_2$	96-33-3
Methyl methacrylate	< 0.2%	$C_5H_8O_2$	80-62-6

4 FIRST-AID MEASURES

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

soap. Wash-out solution remained on the skin may cause some irritation.

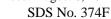
Environmental Precautions The unexposed plate is soluble in water, that may pollute environment.

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.

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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.

Use with adequate ventilation or local exhaust system. Do not inhale fumes and gases. Precautions

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

Keep the packages vertical, and not pile up. Pay attention not to fall them down. **Technical Measures**

Incompatible Products Strong oxidizing materials

Keep away from water and alcohol in which the material is soluble.

Store plates in a cool ($< 25^{\circ}$ C), and dry location, away from sources of intense heat and **Storage Conditions**

ignition. Put and store all the unexposed plates into the particular masking bag.

Packaging Materials Masking bag or corrugated board package

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. **MEASURES**

Control Parameters

	ε -caprolactam	Methyl alcohol	Methyl methacrylate	Methyl acrylate
ACGIH	5mg/m3(STEL)	200ppm(TWA)	50ppm(TWA)	2ppm(TWA)
		250ppm(STEL)	100ppm(STEL)	(Skin)
(Year)	(2004)	(2004)	(2004)	(2004)

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 Slightly sweet odor Odor

6.4 as washing-out solution рH

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

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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.

11 TOXICOLOGICAL INFORMATION

Acute toxicity (Oral) Oral-Rat LDLo: > 2,000mg/kg

Skin corrosion/irritation No irritation potential to the rabbit skin

Serious eye damage

Reversible and moderate irritation potential to the eyes of rabbits

/eye irritation

Mutagenicity 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 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 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.