

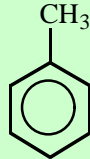
Page 1 of 6

Date of issue / Reference: 25.08.98 / J. Zauner
 Replaces version of / Reference: 01.03.95 / J. Zauner

1 Commercial product name and supplier

1.1	Commercial product name / designation	PI PLATE PROTECTION INK 1 I
1.2	Application / use	Graphic Product (field: plate development)
1.3	Producer	Fuji Photo Film Co., LTD., 26-30, Nishiazabu 2-Chome, Minato-Ku, Tokyo 106, Japan
1.4	Supplier	FUJI PHOTO FILM (UK) LTD, Fuji Film House; 125, Finchley Road, London NW3 6JH; Tel.: (0171) 5865900;
1.5	TOX emergency number	Technical Centre, Bedford: (01234) 340040;
1.6	BAG T No. (CH)	N/Av
1.7	Product No.	333035

2 Composition

2.1	Chemical characterisation	Aqueous solution containing organic and inorganic salts.	
	Active ingredient:		
	CAS No.:	108-88-3	
		toluene	
2.2	Hazardous components	Components contributing to hazard (88/379/EEC):	
	CAS Nr. :	61789-60-4	1 - 5 % pitch
	EINECS:	2630724	
		T: Toxic. R45: May cause cancer.	
	CAS Nr. :	108-88-3	1 - 5 % toluene
	EINECS:	2036259	
		F: Highly flammable. Xn: Harmful. R11: Highly flammable. R20: Harmful by inhalation.	
2.3	Further information	None.	

3 Hazards identification

-

4 First aid measures

4.1	Eye contact	Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.
4.2	Skin contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing.
4.3	Ingestion	Consult a physician or transport to emergency facility immediately.
4.4	Inhalation	Remove to fresh air. Consult a physician.
4.5	Further information	None.

Page 2 of 6

Date of issue / Reference 25.08.98 / J. Zauner
 Replaces version of / Reference 01.03.95 / J. Zauner

5 Fire-fighting measures

- 5.1 Suitable extinguishing media
Water.
Water fog, carbon dioxide, foam, dry chemicals.
- 5.2 Extinguishing media to avoid
None under normal conditions.
- 5.3 Further information
Keep containers cool by spraying with water.

6 Accidental release measures

Wear adequate personal protective equipment, see Section 8 (Exposure Controls/Personal Protection)
 Spills should be contained by, and covered with suitable absorbent material and removed for disposal.
 Dispose of according to local and national regulations.
 Prevent from entering into soil, waterways and groundwater.

7 Handling and storage

- 7.1 Handling
Avoid eye and skin contact.
Wash thoroughly after handling.
Wash hands and exposed skin before eating, drinking or smoking and after work.
Use only in well ventilated area.
- 7.2 Industrial hygiene
Ingestion, exposure to skin and eyes and inhalation of any generated vapours should be avoided.
Wear suitable protective clothing, gloves and eye/face protection.

Follow normal industrial hygiene standards.

Do not consume or store food in the work area.
- 7.3 Storage
Keep containers tightly closed.
Store in a well ventilated, cool, dry area.
- 7.4 Fire- and explosion protection
Keep away from sources of ignition.
Keep away from flammable materials, including chemicals.

8 Exposure controls / personal protection

- 8.1 Technical equipment
Good general ventilation should be sufficient for most processing operations. Vent work area to ensure airborne concentrations are below the current occupational exposure limits. 10 or more room air changes per hour containing a minimum of 15% fresh air, will meet these requirements.
- 8.2 Control of treshold limits
None established.
- 8.3 Personal protective equipment**
 - 8.3.1 Respiratory protection
No respiratory protection needed under normal conditions.
Good general ventilation should be sufficient.
 - 8.3.2 Hand protection
Neoprene or butyl rubber should be effective glove materials.

Page 3 of 6

Date of issue / Reference 25.08.98 / J. Zauner
 Replaces version of / Reference 01.03.95 / J. Zauner

8.3.3 Eye protection Use chemical safety goggles.
 Eye wash fountain should be located in immediate work area.

8.3.4 Other Appropriate protective clothing.

9 Physical and chemical properties

9.1 Appearance liquid

9.2 Color black

9.3 Odour characteristic

9.4 Change in physical state

Melting point ~ 0 °C

Boiling point ~ 100 °C

9.5 Density 1.058 g/cm³ (20 °C)
 not known

9.6 Vapour pressure ----- N/Av

9.7 Viscosity ----- N/Av

9.8 Solubility in acetone ----- g/l (20 °C)
 miscible

9.9 pH-value 4.15 (25 °C)
 acidic

9.10 Flash point 48 °C

9.11 Ignition temperature ----- °C
 N/Av

9.12 Explosion limits Lower: ----- vol.% N/Av
 Upper: ----- vol.% N/Av

remark(s) None.

9.13 Further information None.

10 Stability and reactivity

10.1 Thermal decomposition Is stable under normal storage conditions.

10.2 Hazardous decomposition products In case of thermal decomposition poisonous and irritant gases/fumes can be released.

10.3 Hazardous reactions With strong oxidisers.

10.4 Further information None.

Page 4 of 6 Date of issue / Reference 25.08.98 / J. Zauner
 Replaces version of / Reference 01.03.95 / J. Zauner

11 Toxicological information

Product Information:

LD50, oral: > 10 000 mg/kg Test Animal: CD Rats (remote Sprague -Dawley)
 LD50, dermal: N/Av Test Animal: N/Av

11.1 Acute Overexposure:

Primary Skin Irritation Index: 0.1 New Zealand White Rabbits

Primary Eye Irritation Index: Positive effect New Zealand White Rabbits

11.2 Further information

None.

Ingredients information

CAS No.	Component	LD50 (mg/kg)	Test Animal:
9000-01-5	arabic gum	8000	Rabbits
9005-90-7	turpetine	N/Av	
61789-97-7	beef tallow	N/Av	
1333-86-4	carbon black	N/Av	
61789-60-4	pitch	N/Av	
108-88-3	toluene	636	Rats

12 Ecological information

Ecotox Data: N/Av

Chemical Fate Data: N/Av

Ingredients information

CAS No.	Component	Fish Toxicity	Fish Organism
9000-01-5	arabic gum	LC50 N/Av	
9005-90-7	turpetine	N/Av N/Av	
61789-97-7	beef tallow	LC50 N/Av	
1333-86-4	carbon black	LC50 N/Av	
61789-60-4	pitch	N/Av N/Av	
108-88-3	toluene	LC50 N/Av	

13 Disposal considerations

Dispose of according to local and national regulations.
 Containers must be disposed of in accordance with local regulations.

13.1 EC-Waste Code

090199

13.2 Origin

Photographic Industry

Page 5 of 6 Date of issue / Reference 25.08.98 / J. Zauner
Replaces version of / Reference 01.03.95 / J. Zauner

14 Transport information

14.1	GGVE / GGVS RID / ADR UN-No. Tremcard Further information	Class 3 Class 3 1993 30G35 During shipment, storage, installation and use, this material should not be exposed to flame or other ignition sources.	Cipher 31c Cipher 31c	
14.2	GGVSee ADNR UN-No. IMDG-code page EMS MFAG Packing group Further information	Class 3.3 Class 3.3 1993 3345 3-07 310 III During shipment, storage, installation and use, this material should not be exposed to flame or other ignition sources.		
14.3	ICAO / IATA-GDR UN-No. PSN Subsidiary risk Labels Packing group Passenger aircraft Cargo aircraft only Further information	Class 3 1993 Flammable liquid, n.o.s. (contains Toluene) ----- Fammable liquid (toluene) III Packing Instruction 309 max. 60l Packing Instruction 310 max. 220l During shipment, storage, installation and use, this material should not be exposed to flame or other ignition sources.		

15 Regulatory information

15	Regulatory information	This product does not require classification according to the criteria of the EC and the "Gefahrstoffverordnung".
15.1	UN-No.	1993
15.2	Swiss toxicity class	-----
15.3	EC-No.	-----
15.4	Hazard symbols	-
15.5	Hazard designation	-----
15.6	Risk phrases	R:
15.7	Safety phrases	S: -

EC Safety Data Sheet

PI PLATE PROTECTION INK 1 I



Page 6 of 6

Date of issue / Reference 25.08.98 / J. Zauner
Replaces version of / Reference 01.03.95 / J. Zauner

15.8 TLV / MAK/... CAS Nr. 108-88-3: Toluene -----
(Toluol)

MAK 50 ml/m³ = 190 mg/m³;
U.S.A. ACGIH : 1 00ppm

15.9 BVD classification ----- N/Ap

15.10 VbF A II

15.11 Further information None.

16 Other information

The use of the preparation is restricted to professional users!

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.

N/Av = Not available N/Ap = Not applicable