

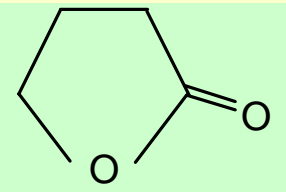
Date of issue / Reference 05.02.02 / J. Zauner  
 Replaces version of / Reference 14.03.01 / J. Zauner

Page 1 of 6 69

**1 Commercial product name and supplier**

1.1	Commercial product name / designation	<b>RP-1 PLATE IMAGE REMOVER 100 ml</b>
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 6HY; Tel.: (0207) 5865900;
1.5	TOX emergency number	Technical Centre, Bedford: (01234) 373879; Please contact Local Hospital Accident & Emergency Department or GP who can contact the UK National Poisons Unit for advise.
1.6	BAG T No. (CH)	671063
1.7	Product No.	333004

**2 Composition**

2.1	Chemical characterisation	Aqueous solution containing organic and inorganic salts. Active ingredient: CAS No.: 96-48-0 g-Butyrolactone
		
2.2	Components	<b>Components contributing to hazard (88/379/EEC):</b>
	CAS Nr. : 111-96-6 EINECS: 2039244	20 - 40 % dimethyl diethyleneglycol
		N/Ap
	CAS Nr. : 96-48-0 EINECS: 2025095	15 - 30 % g-butyrolactone
		Xn: Harmful. R22: Harmful if swallowed. R36: Irritating to eyes.
	CAS Nr. : 1330-20-7 EINECS: 2155357	5 - 10 % xylene
		Xn: Harmful. R10: Flammable. R20/21: Harmful by inhalation and in contact with skin. R38: Irritating to skin.
	CAS Nr. : 25551-13-7 EINECS: 2470999	3 - 7 % trimethylbenzen
		N/Ap
	CAS Nr. : 7631-86-9 EINECS: 2315454	3 - 7 % silica
		N/Ap
	CAS Nr. : 7664-38-2 EINECS: EINECS:	1 - 5 % phosphoric acid
		C: Corrosive. R34: Causes burns.

Page 2 of 6 **69** Date of issue / Reference 05.02.02 / J. Zauner  
 Replaces version of / Reference 14.03.01 / J. Zauner

CAS Nr. : 9004-67-5 1 - 5 % methyl cellulose  
 N/Ap

CAS Nr. : 64-19-7 1 - 5 % acetic acid  
 EINECS: 2005807

C: Corrosive. R10: Flammable. R35: Causes severe burns.

2.3 Further information None.

**3 Hazards identification** Irritating to eyes. Flammable.

**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.

**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.

Page 3 of 6 69      Date of issue / Reference      05.02.02 / J. Zauner  
 Replaces version of / Reference      14.03.01 / J. Zauner

7.4 Fire- and explosion protection      Keep away from sources of ignition.

**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 threshold 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.

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      pink

9.3 Odour      characteristic

9.4 Change in physical state

Melting point      ----- °C

Boiling point      ----- °C

9.5 Density      ----- g/cm<sup>3</sup> (20 °C)

9.6 Vapour pressure      ----- mm Hg (21 °C)

9.7 Viscosity      ----- cP

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

miscible

9.9 pH-value      ----- (25 °C)

9.10 Flash point      46 °C

9.11 Ignition temperature      ----- °C

9.12 Explosion limits      Lower: ----- vol.%

Upper: ----- vol.%

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.

**11 Toxicological information**

Product Information:

LD50, oral:	> 10 000 mg/kg	Test Animal:	Rats
LD50, dermal:	N/Av	Test Animal:	N/Av

11.1 Acute Overexposure:

Primary Skin Irritation Index:	N/Av	N/Av
Primary Eye Irritation Index:	N/Av	N/Av

11.2 Further information

Irritating to eyes. Flammable.

Ingredients information

CAS No.	Component	LD50 (mg/kg)	Test Animal:
111-96-6	dimethyl diethyleneglycol	N/Av.	
96-48-0	g-butyrolactone	1540	Rats
1330-20-7	xylene	4300	Rats
25551-13-7	trimethylbenzen	8970	Rats
7631-86-9	silica	N/Av.	Rats
7664-38-2	phosphoric acid	1530	Rats
9004-67-5	methyl cellulose	N/Av	
64-19-7	acetic acid	3310	Rats
9004-65-3	0.5-1.5 %	N/Av.	

**12 Ecological information**

Ecotox Data:	N/Av
Chemical Fate Data:	N/Av

Ingredients information

CAS No.	Component	Fish Toxicity	Fish Organism
111-96-6	dimethyl diethyleneglycol	LC50 N/Av	
96-48-0	g-butyrolactone	LC50 N/Av	
1330-20-7	xylene	LC50 N/Av	
25551-13-7	trimethylbenzen	LC50 N/Av	
7631-86-9	silica	LC50 N/Av	
7664-38-2	phosphoric acid	LC50 N/Av	
9004-67-5	methyl cellulose	LC50 N/Av	
64-19-7	acetic acid	LC50 251 ppm	Gambusia affinis
9004-65-3	0.5-1.5 %	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	090103
13.2 Origin	Photographic Industry

Date of issue / Reference 05.02.02 / J. Zauner  
 Replaces version of / Reference 14.03.01 / J. Zauner

Page 5 of 6 69

**14 Transport information**

14.1	GGVE / GGVS RID / ADR  UN-No. Tremcard Further information	Class 3 Class 3	Cipher 31c Cipher 31c	
		1993 30G35-3 During shipment, storage, installation and use, this material should not be exposed to flame or other ignition sources.		
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 4.2 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 Xylene)	
		----- Fammable liquid III Packing Instruction 309 max. 60 L Packing Instruction 310 max. 220 L During shipment, storage, installation and use, this material should not be exposed to flame or other ignition sources.		

**15 Regulatory information**

15		This product requires classification according to the criteria of the EC.		
15.1	UN-No.	1993		
15.2	Swiss toxicity class	3		
15.3	EC-No.	-----		
15.4	Hazard symbols	Xi 		
15.5	Hazard designation	Xi: Irritant. Contains g-Butyrolactone.		
15.6	Risk phrases	<b>R: 36-10</b> 36 Irritating to eyes. 10 Flammable.		
15.7	Safety phrases	<b>S: 26</b> 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advise.		
15.8	TLV / MAK/...	No Occupational Exposure Limits have been		

# EC Safety Data Sheet

RP-1 PLATE IMAGE REMOVER 100 ml



Page 6 of 6 **69** Date of issue / Reference 05.02.02 / J. Zauner  
Replaces version of / Reference 14.03.01 / J. Zauner

15.9 BVD classification -----  
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