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1 Commercial product name and supplier

1.1	Commercial product name / designation	EU-3 PLATE ETCH 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)	54006
1.7	Product No.	333047

2 Composition

2.1	Chemical characterisation	Aqueous solution containing organic and inorganic salts. Active ingredient: CAS No.: 71-23-8 propyl alcohol (1) <chem>CH3-CH2-CH2-OH</chem> (1)
2.2	Hazardous components	Components contributing to hazard (88/379/EEC): 1 - 5 % sodium nitrate O: Oxidizing. R8: Contact with combustible material may cause fire. 1 - 5 % propanol F: Highly flammable. R11: Highly flammable. 0.5-1.5 % phosphoric acid C: Corrosive. R34: Causes burns.
2.3	Further information	None.

3 Hazards identification

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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.

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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	Avoid eye and skin contact. 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 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.

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- 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 bluish
- 9.3 Odour characteristic
- 9.4 Change in physical state
 - Melting point ~ 0 °C
 - Boiling point ~ 100 °C
- 9.5 Density 1.07 g/cm³ (20 °C)
not known
- 9.6 Vapour pressure ----- N/Av
- 9.7 Viscosity ----- N/Av
- 9.8 Solubility in water ----- g/l (20 °C)
completely soluble
- 9.9 pH-value 3.25 (25 °C)
acidic
- 9.10 Flash point ----- °C
N/Av
- 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 alkalies.
- 10.4 Further information None.

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11 Toxicological information

Product Information:

LD50, oral: > 5000 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: N/Av New Zealand White Rabbits

Primary Eye Irritation Index: No effect New Zealand White Rabbits

11.2 Further information

None.

Ingredients information

CAS No.	Component	LD50 (mg/kg)	Test Animal:
7631-99-4	sodium nitrate	1267	Rats
9004-32-4	carboxymethylcellulose (sodium salt)	>3000	Mice
527-07-1	sodium gluconate	>6000	Rats
71-23-8	propanol	1870	Rats
10377-60-3	magnesium nitrate	4300	Rats
7664-38-2	phosphoric acid	1530	Rats

12 Ecological information

Ecotox Data: N/Av

Chemical Fate Data: N/Av

Ingredients information

CAS No.	Component	Fish Toxicity	Fish Organism
7631-99-4	sodium nitrate	LC50 N/Av	
9004-32-4	carboxymethylcellulose (sodium salt)	LC50 N/Av	
527-07-1	sodium gluconate	LC50 N/Av	
71-23-8	propanol	LC50 N/Av	
10377-60-3	magnesium nitrate	LC50 N/Av	
7664-38-2	phosphoric acid	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

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14 Transport information

14.1	GGVE / GGVS RID / ADR UN-No. Tremcard Further information	Class ---- Class ---- Cipher ---- Cipher ----	----- ----- Material not classified for transport at land (road, rail, barge).
14.2	GGVSee ADNR UN-No. IMDG-code page EMS MFAG Packing group Further information	Class ---- Class ----	----- ----- Material not classified for transport at sea.
14.3	ICAO / IATA-GDR UN-No. PSN Subsidiary risk Labels Packing group Passenger aircraft Cargo aircraft only Further information	---- ---- ---- ---- ---- ---- Packing Instruction ---- Packing Instruction ----	----- ----- ----- ----- ----- ----- max. ---- max. ---- Material not classified for air transport.

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.	-----	
15.2	Swiss toxicity class	4	
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

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15.8 TLV / MAK/...
CAS-Nr.: 7664-38-2: H₃PO₄ -----
U.S.A. ACGIH : 1 mg/m³
CAS-Nr.:71-23-8:
propyl alcohol :ACGIH TLV/
OSHA-PEL: 200 ml/m³
15.9 BVD classification ----- N/Ap
15.10 VbF ----- N/Ap
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