

1 Commercial product name and supplier

1.1	Commercial product name / designation	HD-P1 PLATE DEVELOPER 10 I
1.2	Application / use	Graphic Product (field: plate development)
1.3	Producer	Fuji Hunt Photographic Chemicals n.v., Europark Noord 21-22, B-9100 Sint Niklaas, Belgium (0032 376 00200)
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)	681042
1.7	Product No.	950857

2 Composition

2.1	Chemical characterisation	Aqueous, alkaline solution containing inorganic salts. Active ingredient: CAS No.: 6834-92-0 Disodium silicate
2.2	Components	Components contributing to hazard (88/379/EEC): 10 - 20 % dipotassium silicate C: Corrosive. R34: Causes burns. R37: Irritating to respiratory system. 3 - 7 % disodium silicate C: Corrosive. R34: Causes burns. R37: Irritating to respiratory system.
2.3	Further information	None.

3 Hazards identification

Causes burns.

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	Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.
4.4	Inhalation	Remove to fresh air. Consult a physician.
4.5	Further information	None.

Page 2 of 5

Date of issue / Reference 05.02.02 / J. Zauner
 Replaces version of / Reference 14.03.01 / 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
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
Not combustible.

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	colourless	
9.3	Odour	practically odourless	
9.4	Change in physical state		
	Melting point	~ 0	°C
	Boiling point	~ 100	°C
9.5	Density	1.234	g/cm ³ (20 °C)
9.6	Vapour pressure	----	mm Hg (21 °C)
9.7	Viscosity	----	cP
9.8	Solubility in water	----	g/l (20 °C)
		completely soluble	
9.9	pH-value	14	(25 °C)
		alkaline	
9.10	Flash point	----	°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 acids.
10.4	Further information	None.

11 Toxicological information

	<u>Product Information:</u>		
	LD50, oral:	2667 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	Causes burns.	

Ingredients information

Page 4 of 5 Date of issue / Reference 05.02.02 / J. Zauner
 Replaces version of / Reference 14.03.01 / J. Zauner

CAS No.	Component	LD50 (mg/kg)	Test Animal:
10006-28-7	dipotassium silicate	N/Av	
6834-92-0	disodium silicate	1153	rat

12 Ecological information

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

Ingredients information

CAS No.	Component	Fish Toxicity	Fish Organism
10006-28-7	dipotassium silicate	LC50 N/Av	
6834-92-0	disodium silicate	LD50 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 090102
 13.2 Origin Photographic Industry

14 Transport information

14.1	GGVE / GGVS RID / ADR	Class 8 Class 8	Cipher 47b Cipher 47b	
	UN-No. Tremcard Further information	3266 80G20-31 Do not allow any contact with light metals - danger of corrosion.		
14.2	GGVSee ADNR	Class 8 Class 8		
	UN-No. IMDG-code page EMS MFAG Packing group Further information	3266 ---- 8-15 ---- II Do not allow any contact with light metals - danger of corrosion.		
14.3	ICAO / IATA-GDR UN-No. PSN	Class 8 3266		
	Subsidiary risk Labels Packing group Passenger aircraft Cargo aircraft only Further information	Corrosive liquid, basic, inorganic, n.o.s. (contains Alkali silicates) ---- Corrosive II Packing Instruction 808 max. 1 L Packing Instruction 812 max. 30 L Do not allow any contact with light metals - danger of corrosion.		

Page 5 of 5 Date of issue / Reference 05.02.02 / J. Zauner
 Replaces version of / Reference 14.03.01 / J. Zauner

15	Regulatory information	This product requires classification according to the criteria of the EC.
15.1	UN-No.	3266
15.2	Swiss toxicity class	2
15.3	EC-No.	-----
15.4	Hazard symbols	C 
15.5	Hazard designation	C: Corrosive. Contains dipotassium metasilicate.
15.6	Risk phrases	R: 34 34 Causes burns.
15.7	Safety phrases	S: 26-36/37/39-45 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advise. 36/37/39 Wear suitable protective clothing, gloves and eye/face protection. 45 In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible).
15.8	TLV / MAK/...	No Occupational Exposure Limits have been established.
15.9	BVD classification	-----
15.10	VbF	-----
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