## 1 Commercial product name and supplier

**1.1 Commercial product name / designation**

HD-P1 PLATE DEVELOPER 10 l

**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; Technical Centre, Bedford: (01234) 373879; Please contact Local Hospital Accident & Emergency Department or GP who can contact the UK National Poisons Unit for advise.

**1.5 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:**

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Components contributing to hazard (88/379/EEC):</th>
</tr>
</thead>
<tbody>
<tr>
<td>6834-92-0</td>
<td>C: Corrosive. R34: Causes burns. R37: Irritating to respiratory system.</td>
</tr>
<tr>
<td>10006-28-7</td>
<td>10 - 20 % dipotassium silicate</td>
</tr>
<tr>
<td>6834-92-0</td>
<td>3 - 7 % disodium silicate</td>
</tr>
<tr>
<td>2299129</td>
<td>C: Corrosive. R34: Causes burns. R37: Irritating to respiratory system.</td>
</tr>
</tbody>
</table>

**2.2 Components**

<table>
<thead>
<tr>
<th>CAS Nr.</th>
<th>EINECS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>10006-28-7</td>
<td>2330011</td>
</tr>
<tr>
<td>6834-92-0</td>
<td>2299129</td>
</tr>
</tbody>
</table>

**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.
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.

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>9.1 Appearance</strong></td>
<td>liquid</td>
</tr>
<tr>
<td><strong>9.2 Color</strong></td>
<td>colourless</td>
</tr>
<tr>
<td><strong>9.3 Odour</strong></td>
<td>practically odourless</td>
</tr>
<tr>
<td><strong>9.4 Change in physical state</strong></td>
<td>~ 0 °C</td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
<td>~ 0 °C</td>
</tr>
<tr>
<td><strong>Boiling point</strong></td>
<td>~ 100 °C</td>
</tr>
<tr>
<td><strong>9.5 Density</strong></td>
<td>1.234 g/cm³ (20 °C)</td>
</tr>
<tr>
<td><strong>9.6 Vapour pressure</strong></td>
<td>----- mm Hg (21 °C)</td>
</tr>
<tr>
<td><strong>9.7 Viscosity</strong></td>
<td>----- cP</td>
</tr>
<tr>
<td><strong>9.8 Solubility in water</strong></td>
<td>completely soluble</td>
</tr>
<tr>
<td><strong>9.9 pH-value</strong></td>
<td>14 (25 °C)</td>
</tr>
<tr>
<td><strong>9.10 Flash point</strong></td>
<td>----- °C</td>
</tr>
<tr>
<td><strong>9.11 Ignition temperature</strong></td>
<td>----- °C</td>
</tr>
<tr>
<td><strong>9.12 Explosion limits</strong></td>
<td>Lower: ----- vol.%</td>
</tr>
<tr>
<td></td>
<td>Upper: ----- vol.%</td>
</tr>
<tr>
<td><strong>9.13 Further information</strong></td>
<td>None.</td>
</tr>
</tbody>
</table>

## 10 Stability and reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>10.1 Thermal decomposition</strong></td>
<td>Is stable under normal storage conditions.</td>
</tr>
<tr>
<td><strong>10.2 Hazardous decomposition products</strong></td>
<td>In case of thermal decomposition poisonous and irritant gases/fumes can be released.</td>
</tr>
<tr>
<td><strong>10.3 Hazardous reactions</strong></td>
<td>With strong acids.</td>
</tr>
<tr>
<td><strong>10.4 Further information</strong></td>
<td>None.</td>
</tr>
</tbody>
</table>

## 11 Toxicological information

### LD50
- **LD50, oral:** 2667 mg/kg Test Animal: Rats
- **LD50, dermal:** N/Av Test Animal: N/Av

### Acute Overexposure:
- **Primary Skin Irritation Index:** N/Av
- **Primary Eye Irritation Index:** N/Av

### Further information
- Causes burns.

### Ingredients information
EC Safety Data Sheet (According to 2001/58/EC)

HD-P1 PLATE DEVELOPER 10 l

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

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12 Ecological information

Ecotoxicological data for toxicological data:
N/Av
Chemical Fate Data:
N/Av

Ingredients information

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Fish Toxicity</th>
<th>Fish Organism</th>
</tr>
</thead>
<tbody>
<tr>
<td>dipotassium silicate</td>
<td>10006-28-7</td>
<td>LC50 N/Av</td>
<td></td>
</tr>
<tr>
<td>disodium silicate</td>
<td>6834-92-0</td>
<td>LD50 N/Av</td>
<td></td>
</tr>
</tbody>
</table>

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 / GGVSee
RID / ADR
Class 8 Cipher 47b
Class 8 Cipher 47b
UN-No.
Tremcard
3266
80G20-31
Further information
Do not allow any contact with light metals - danger of corrosion.

14.2 ADNR
UN-No.
3266
IMDG-code page
-----
EMS
-----
MFAG
-----
Packing group
II
Further information
Do not allow any contact with light metals - danger of corrosion.

14.3 ICAO / IATA-GDR
UN-No.
3266
PSN
Corrosive liquid, basic, inorganic, n.o.s.
(contains Alkali silicates)
Subsidiary risk
Labels
Packing group
II
Passenger aircraft
Packing Instruction 808 max. 1 L
Cargo aircraft only
Packing Instruction 812 max. 30 L
Further information
Do not allow any contact with light metals - danger of corrosion.
### Regulatory information

- **UN-No.**
  - 3266

- **Swiss toxicity class**
  - 2

- **EC-No.**
  - ----

- **Hazard symbols**
  - C

#### Hazard designation

C: Corrosive. Contains dipotassium metasilicate.

#### Risk phrases

- **R: 34**
  - Causes burns.

#### 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).

#### TLV / MAK/...

No Occupational Exposure Limits have been established.

#### BVD classification

- **VbF**
  - ----

#### Further information

None.

### Other information

The use of the preparation is restricted to professional users!

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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