

**MATERIAL SAFETY DATA SHEET**

Catalogue N° : 964833 Printing date : 05/06/2007

**1. IDENTIFICATION OF THE SUBSTANCE /PREPARATION AND OF THE COMPANY**

1.1. Identification of the substance or preparation

**FJ LH-DPWE DEVELOPER RTU 10L**

1.2. Use of the substance/preparation

Graphic product ( field: plate development )

1.3. Company/undertaking identification

|                        |                             |
|------------------------|-----------------------------|
| FUJIFILM Europe NV     | FUJIFILM UK Ltd.            |
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1.4. Emergency telephone

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**2. HAZARDS IDENTIFICATION**

Most important hazards :

Irritating to eyes and skin.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical characterisation: aqueous solution

Components contributing to hazard:

| w/w%    | CAS N°    | EINECS N° | Components<br>Symb. R-phrases    |
|---------|-----------|-----------|----------------------------------|
| 0,5-1,5 | 1310-58-3 | 215-181-3 | POTASSIUM HYDROXIDE<br>C R:22-35 |

**4. FIRST AID MEASURES**

Eye contact

Irrigate with flowing water immediately and continuously for 15 minutes.

Consult medical personnel.

Skin contact

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing

Ingestion

Consult a physician or transport to emergency facility immediately.

Inhalation

Remove to fresh air. Consult a physician.

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 control / personal protection ).
- Spills should be contained by and carried with suitable absorbent material and removed from 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 hands and exposed skin before eating, drinking or smoking and after work. Use only in a well ventilated area. Ingestion, exposure to skin and eyes and inhalation of any generated vapours should be avoided. Wear suitable protective clothing, gloves and eye/face protection. Do not consume or store food in the working area.

### 7.2. Storage

Keep containers tightly closed. Store in a well ventilated, cool, dry area. Storage temperature should be higher than +5°C

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### 8.1. Exposure limit values (INGREDIENTS INFORMATION)

|                               |                       |
|-------------------------------|-----------------------|
| POTASSIUM HYDROXIDE           |                       |
| TLV-C                         | = 2 mg/m <sup>3</sup> |
| MAK ( Deutschland, TRGS 900 ) | = NAV                 |
| TLV-TWA                       | = NAV                 |
| TLV-STEL                      | = 2 mg/m <sup>3</sup> |

### 8.2. Exposure controls

Respiratory protection: no respiratory protection needed under normal conditions. Good ventilation should be sufficient.

Hand protection: use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: nitrile rubber (thickness  $\geq$  0,38 mm, breakthrough time  $>$  480 min) neoprene (thickness  $\geq$  0,65 mm, breakthrough time  $>$  240 min). butyl rubber (thickness  $\geq$  0,36 mm, breakthrough time  $>$  480 min)

For intermittent splash protection corresponding gloves with breakthrough time  $>$  60 min can be used.

Avoid gloves made of : natural rubber.

Eye protection: use chemical safety goggles. Eye wash fountain should be located in immediate work area.

Other: appropriate protective clothing.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

|                            |               |
|----------------------------|---------------|
| Appearance                 | : Liquid      |
| Colour                     | : Pale Yellow |
| pH value (25°C)            | : 13,0        |
| Density (20°C) Kg/L        | : 1,037       |
| Solubility in water (25°C) | : Completely  |
| Viscosity                  | : As water    |

## **10. STABILITY AND REACTIVITY**

### 10.1. Conditions to avoid

The product is stable under normal storage conditions.

### 10.2. Materials to avoid

Keep away from acids.

Keep away from metals.

### 10.3. Hazardous decomposition products

None.

## **11. TOXICOLOGICAL INFORMATION**

### Acute toxicity (INGREDIENTS INFORMATION)

|                     |             |
|---------------------|-------------|
| POTASSIUM HYDROXIDE |             |
| LD50 (Oral Rat)     | = 273 mg/kg |

### Eye contact

Irritating to eyes.

### Skin contact

Irritating to skin.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity (INGREDIENTS INFORMATION)  
POTASSIUM HYDROXIDE  
LC50 (Pimephales promelas, 96h) = 880 mg/l

## 13. DISPOSAL CONSIDERATIONS

Dispose of according to local and national regulations. Containers must be disposed of in accordance with local regulations.  
EWC: 09 01 02 Water-based offset plate developer solutions

## 14. TRANSPORT INFORMATION

UN N° : 1814 PSN : POTASSIUM HYDROXIDE, SOLUTION  
ADR/RID

Class:8 labels :8 Pack. Group:III  
Code :E TREMcard :8.1814C-301 Spec. Prov.:  
Pack. Inst.:P001,IBC03,LP01,R001 Lim. Quant.:LQ7

IMDG

Class:8 Subs. Risk :NA Pack. Group:III  
EmS fire:F-A EmS Storage:S-B IBC. Inst. :IBC03  
Pack. Inst.:P001,LP01 Lim. Quant.:5L Mar.Poll:N

ICAO/IATA

Class:8 Subs. Risk :NA Pack. Group:III  
Passenger and Cargo Aircraft. Pkg Inst:819 Max Net Qty/Pkg:5L  
Cargo Aircraft Only . Pkg Inst:821 Max Net Qty/Pkg:60L  
Ltd Qty . Pkg Inst:1L Max Net Qty/Pkg:Y819

## 15. REGULATORY INFORMATION

EU Classification and User Label Information:

Contains : POTASSIUM HYDROXIDE

Symbol(s) : Xi

R(isk) phrase(s) :

R36/38 : Irritating to eyes and skin.

S(afety) phrase(s) :

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Other information :

WGK: nwg

C-classification

BAG T n° (CH): 681 063

Toxicity class (CH): 3

## 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.

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Date of issue: 01.10.2005

Supersedes edition of: 01.04.2004  
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Nav : Not available NA : Not applicable

RISK PHRASES MENTIONED IN PARAGRAPH 2:

R22 : Harmful if swallowed.

R35 : Causes severe burns.