EC Safety Data Sheet

FCT-E12 DEVELOPER RTU 10 L

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

1 Commercial product name and supplier

1.1	Commercial product name / designation	**FCT-E12 DEVELOPER RTU 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;
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)	-----
1.7	Product No.	979542

2 Composition

2.1 Chemical characterisation

Aqueous, alkaline solution containing inorganic salts.

Active ingredient: 1310-58-3 potassium hydroxide — KOH

2.2 Components

Components contributing to hazard (88/379/EEC):

CAS Nr. : 50-70-4
EINECS: 2000615

3 - 7 % D-sorbitol

N/Ap

CAS Nr. : 1310-58-3
EINECS: 2151813

1 - 5 % potassium hydroxide; caustic potash

C: Corrosive. R22: Harmful if swallowed. R35: Causes severe burns.

2.3 Further information: None.

3 Hazards identification

Irritating to eyes and skin.

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	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 airbone 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	N/Av		
9.3	Odour	N/Av		
9.4	Change in physical state			
	Melting point	~ 0	°C	
	Boiling point	~ 100	°C	
9.5	Density	1.035	g/cm3 (20 °C)	
9.6	Vapour pressure	-----	mm Hg (21 ^{0}C)	
9.7	Viscosity	-----	cP	
		like water		
9.8	Solubility in water	-----	g/l (20 °C)	
		completely soluble		
9.9	pH-value	13.12	(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

Product Information:

LD50, oral:	N/Av	mg/kg	Test Animal:	N/Av
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 and skin.

Ingredients information

CAS No.	Component	LD50 (mg/kg)	Test Animal:
50-70-4	D-sorbitol	15900	Rats
1310-58-3	potassium hydroxide; caustic potash	273	Rats

12 Ecological information

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

Ingredients information

CAS No.	Component	Fish Toxicity		Fish Organism
50-70-4	D-sorbitol	LC50	N/Av	
1310-58-3	potassium hydroxide; caustic potash	LC50	549 ppm	Gambusia affinis

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	Class 8	Cipher 42c			
	RID / ADR	Class 8	Cipher 42c			
	UN-No.	1814				
	Tremcard	80G12-6				
	Further information	Do not allow any contact with light metals - danger of corrosion.				
14.2	GGVSee	Class 8				
	ADNR	Class 8				
	UN-No.	1814				
	IMDG-code page	8214				
	EMS	8-06				
	MFAG	705				
	Packing group	III				
	Further information	Do not allow any contact with light metals - danger of corrosion.				
14.3	ICAO / IATA-GDR	Class 8				
	UN-No.	1814				
	PSN	Potassium hydroxide, solution				
	Subsidiary risk	-----				
	Labels	Corrosive				
	Packing group	III				
	Passenger aircraft	Packing Instruction	819	max.	5 L	
	Cargo aircraft only	Packing Instruction	821	max.	60 L	
	Further information	Do not allow any contact with light metals - danger of corrosion.				

15 Regulatory information

This product requires classification according to the criteria of the EC.

15.1	UN-No.	1814
15.2	Swiss toxicity class	-----
15.3	EC-No.	-----
15.4	Hazard symbols	**Xi** 
15.5	Hazard designation	Xi: Irritant. Contains potassium hydroxide; caustic potash.
15.6	Risk phrases	**R: 36/38**
		36/38 Irritating to eyes and skin.
15.7	Safety phrases	**S: 26**
		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
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