

## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product Identity :** **FD10 FILM  
DEVELOPER**

**Producer / Distributor :** Jay House Ltd., Fiveways House, Westwells Road,  
Rudloe, Corsham, Wiltshire, U.K. SN13 9RC  
Emergency Tel: 01225 810596 Fax: 01225 811801

## 2. COMPOSITION / INGREDIENT INFORMATION

This is an aqueous, alkaline solution of organic and inorganic compounds, normally diluted 1+9 with water to make working solution. The main ingredients are :

Chemical Name and Symbol letter	%w/w	R-Phrases	S-Phrases	EINEC No	CAS No
HYDROQUINONE	<1 %	-	-	204-617-8	123-31-9
PHENIDONE (1-Phenyl-3-Pyrazolidone)	<1 %	-	-	202-155-1	92-43-3
SODIUM HYDROXIDE	<1 %	-	-	215-185-5	1310-58-3
SODIUM SULPHITE	<5 %	-	-	-	10117-38-1
POTASSIUM CARBONATE	<5 %	-	-	-	6381-79-9

## 3. HAZARD IDENTIFICATION

**EC classification :**

See paragraph 15

**Most important hazards :**

## 4. FIRST AID MEASURES

**Inhalation :** Move the victim to fresh air. Put person in half sitting position and let rest. In extreme cases seek medical advice.

**Skin contact :** Flush with plenty of water. Remove contaminated clothing. Wash before re-use

**Eye contact :** Rinse eyes thoroughly with water until irritation stops. In all cases seek medical advice.

**Ingestion :** Rinse mouth with plenty of water. Give victim considerable amounts of water to drink, do not give anything to drink to an unconscious person. In extreme cases seek medical advice.

**Other :** Allergic skin reaction may develop if exposed often and for long periods of time.

**Advice to physician :**

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media** Only use extinguishing media which are compatible with the surrounding materials.

Water, waterspray, Carbon dioxide, dry powder, foam, sand.

**Unsuitable extinguishing media** :All extinguishing media are allowed.

**Special exposure hazards** : When product is involved in a fire, toxic fumes and smoke will be generated. Do not breathe these fumes

**Hazardous decomposition/combustion products** :Formation of CO<sub>2</sub>, CO, SO<sub>2</sub> fumes is possible.

**Protective equipment** : Use approved positive pressure self-contained breathing apparatus when product is involved in a fire.

**Further instructions** :Contaminated extinguishing water should be disposed of in a manner approved by the EEC, national and local regulatory agencies.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** :Wear personal protective clothing. ( See paragraph 8 ).

When vapours, aerosols or mists are formed, wear suitable respiratory protection.

**Environmental precautions** :In case of an accident, avoid release of product into the environment. Prevent product getting into sewerage systems or public waterways.

Try to collect as much as possible in an approved container for later disposal

**Methods for cleaning up** :Action may only be taken when fully protected. Contain the area of spillage. Stop the source of leak. Large amounts should be pumped into a container. Small amounts can be collected with absorbing materials. Small remaining leftovers may be washed away with large amounts of water

## 7. HANDLING AND STORAGE

**Handling** : Working areas and methods should be organised in such a way that direct contact is avoided.Wear protective clothing. Emergency wash and eye rinse facilities should be accessible. When handling chemicals, do not eat, drink or smoke.

**Fire and explosion prevention** :This preparation contains a lot of water and does not show any flammable or explosive properties. No special fire and explosion prevention procedures are necessary.

**Storage requirements** :Store in a dry cool, well ventilated place away from all sources of ignition and heating. Keep the package closed if not in use

**Other information** : Always store in the original container. Do not use the empty contaminated container for any other purposes

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering controls** : Ensure good ventilation and local exhaustion of the working area.

**Exposure limits** :

**Personal protection** :

**Inhalation** : Normally a local ventilation is sufficient to keep airborne concentration of chemicals at a low level. No special breathing protection is necessary.

**Skin contact** : Wear impervious gloves.

**Eye contact** : Wear close fitting safety goggles.

**Ingestion** : When handling chemicals do not eat, drink or smoke.

**Other information** : Always follow the mixing instructions strictly when water or other solutions have to be added to the preparation. Avoid breathing mist or vapour. Avoid contact with eyes and skin. Handle with care.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	: Liquid
<b>Colour</b>	: Colourless
<b>Odour</b>	: Odourless
<b>Boiling point/range</b>	: > 100 deg C
<b>Melting point/range</b>	: Not relevant
<b>Flash point</b>	: Not relevant
<b>Flammability</b>	: Not relevant
<b>Autoignition temperature</b>	: Not relevant
<b>Explosive limits lower</b>	: Not relevant
<b>Oxidising properties</b>	: Not determined
<b>Vapour pressure (20deg C)</b>	: Not determined
<b>Density (20deg C)</b>	: 1.04
<b>Solubility in water (25deg C)</b>	: Completely
<b>Solubility in other solvents (25deg C)</b>	: Not determined
<b>pH value (25deg C)</b>	: 10.4
<b>pH solution in water</b>	: Not determined
<b>Partition coefficient n-octanol/water</b>	: Not determined
<b>Viscosity</b>	: As water
<b>Other information</b>	: -

## 10. STABILITY AND REACTIVITY

**Stability** : The product is stable under normal storage conditions

**Conditions to avoid** : The preparation is an alkaline solution of reducing agents, do not mix with acids as Carbon dioxide and Sulphur dioxide will be liberated

**Materials to avoid** : Corrosive to some metals.

**Hazardous decomposition products** Only when the product is involved in a fire, or when it is handled incorrectly, is there a possibility that decomposition products will be generated. ( See paragraph 5 )

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity :

HYDROQUINONE	LD50 (Oral Rat) =320 mg/kg
PHENIDONE	LD50 (Oral Rat) =200 mg/kg
SODIUM SULPHITE	LD50 (Oral Rat) =2525 mg/kg
POTASSIUM CARBONATE	LD50 (Oral Rat) =1870 mg/kg

### Different routes of exposure, health warnings

**Inhalation** : Avoid breathing mist, vapour or aerosols. Ventilate as required to keep concentrations low.

**Skin contact** : Avoid contact with skin.

**Eye contact** : Can cause irritation.

**Ingestion** : No specific exposure limits determined for this preparation. None of the ingredients shows a very high risk when ingested.

**Other information** :

**Experience with humans** :

## 12. ECOLOGICAL INFORMATION

Information about elimination

Information about environmental compartments :

Ecotoxicity :

Other information :

## 13. DISPOSAL CONSIDERATIONS

**Product or contaminated product** Dispose of leftovers, waste or contaminated products in accordance with local and national regulations.

**Contaminated package** : Contaminated package should be disposed of in accordance with local and national regulations.

**Other information** : We recommend the separation of any waste resulting from this product. It can be dangerous when different photographic products are mixed together

## 14. TRANSPORT INFORMATION

UN No. :

Description : NON HAZARDOUS LIQUID

Containing :

ADR/RID	Class :	Item :	TREMCARD:
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IMDG/ADNR	Class :	Page :	EmS :
	Pack.gr:		MFAG :

ICAO/IATA	Class :	Pass< :	Instr. :
	Pack.gr:	Cargo<:	Instr.

## 15. REGULATORY INFORMATION

Chemical identity :

Warning sign EC :

Symbol(s) :

R(isk) phrase(s) :

S(afety) phrase(s) :

Exposure limits :

Other information :

## 16. OTHER INFORMATION

The above mentioned information corresponds to our present knowledge and therefore does not guarantee certain properties. The safety data sheet serves as a description of the product in regards to necessary safety measures. Recipients of our product must take responsibility for observing existing laws and regulations.