

## MATERIAL SAFETY DATA SHEET

Catalogue N°: 979203 Date: 23/06/2002

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical identity :

**RAPID STAR DEVELOPER REPLENISHER 5L**

Producer / Distributor :  
 FUJI HUNT Photographic  
 Chemicals N.V.  
 Europark Noord 21-22  
 9100 Sint-Niklaas  
 BELGIUM  
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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

This is a liquid preparation in which organic and inorganic compounds are dissolved in water. The basic ingredients are:

w/w%	CAS N°	EINECS N°	Chemical Name Symb. R-phrases
7-15	584-08-7	209-529-3	POTASSIUM CARBONATE Xi R:36/38
0,1-1	92-43-3	202-155-1	1-PHENYL-3-PYRAZOLIDONE XnN R:22-51/53
3-7	111-46-6	203-872-2	DIETHYLENE GLYCOL Xn R:22
3-7	123-31-9	204-617-8	HYDROQUINONE XnN R:22-40-41-43-50-68

### 3. HAZARDS IDENTIFICATION

EU classification :

Harmful (Xn)

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 immediately with plenty of water. Remove contaminated clothing. Wash afterwards with water and soap. In extreme cases seek medical advice.

Eye contact :

Rinse eyes thoroughly with water, keep the eyelids wide open to facilitate irrigation. 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.

Other :

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 :

In case of a fire and/or explosion do not breathe fumes.

Hazardous decomposition/combustion products :

Formation of CO<sub>2</sub> and CO fumes is possible.

Protective equipment :

Use approved positive pressure self-contained breathing apparatus when material is involved in a fire.

Further instructions :

Contaminated extinguishing water should be disposed of in a manner approved by the EEC, country and local regulatory agencies.

## **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions :

Wear personal protective clothing. (see § 8)

Environmental precautions :

In case of an accident, avoid the release of product into the environment.

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. Carefully collect as much as possible of the liquid into a suitable container. The product can be collected with absorbing materials. Small remaining leftovers may be washed away with large amounts of water.

## **7. HANDLING AND STORAGE**

Handling :

When handling these chemicals, do not eat, drink or smoke.

Working areas and methods should be organized in such a way that direct contact is avoided. Wear protective clothing.

Emergency-shower and facilities for rinsing eyes must be accessible.

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 are necessary

Storage requirements :

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

Keep away from acids.

Other information :

Do not use the empty contaminated container for 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.

Skin contact :

Wear suitable impervious rubber gloves.

Eye contact :

Wear close fitting safety goggles.

Ingestion :

When handling these 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**

Appearance	: Liquid
Colour	:
Odour	:
Boiling point/range	: Not determined
Melting point/range	: Not relevant
Flash point °C	: Not relevant
Flammability	: Not relevant
Autoignition temperature	: Not relevant
Explosive limit lower	: Not relevant
Explosive limit upper	: Not relevant
Oxidizing properties	: Not determined
Vapour pressure (20°C)	: Not determined
Density (20°C) Kg/L	: 1.29
Solubility in water (25°C)	: Completely
Solubility in other solvents	: Not determined
pH value (25°C)	: 10.85
pH solution in water	: Not determined
Partition coefficient n-octanol/water	: Not determined
Viscosity	: As water
Other information	:

## **10. STABILITY AND REACTIVITY**

Stability :

The product is stable under normal storage conditions.

Conditions to avoid :

The preparation is an alkaline solution. Do not mix with acid products.

Materials to avoid :

The product is not dangerous for various kinds of materials.

Hazardous decomposition products :

Avoid breathing mist, vapour or aerosols. Ventilation as required to keep concentrations low.

## **11. TOXICOLOGICAL INFORMATION**

Acute toxicity :

POTASSIUM CARBONATE		
LD50 (Oral Rat)	=	1870 mg/kg
1-PHENYL-3-PYRAZOLIDONE		
LD50 (Oral Rat)	=	200 mg/kg
DIETHYLENE GLYCOL		
HYDROQUINONE		
LD50 (Oral Rat)	=	320 mg/kg
TLV-STEL	=	2 mg/m <sup>3</sup>

Different routes of exposure, health warnings :

Inhalation :

Inhalation of mist, vapour or aerosols can cause injury to the entire respiratory tract.

Skin contact :

Skin contact can cause severe injury.

Prolonged skin contact can cause allergic reaction or injury.

Eye contact :

Eye contact rapidly causes severe damage, permanent corneal damage will occur. Risk of permanent damage or loss of vision.

Ingestion :

There are no specific exposure limits determined for this preparation. It is not very likely that this product would be ingested.

## **12. ECOLOGICAL INFORMATION**

Information about elimination :

Information about environmental compartments :

Ecotoxicity :

POTASSIUM CARBONATE		
LC50 (96 hours)	=	-
1-PHENYL-3-PYRAZOLIDONE		
LC50 (96 hrs, Fathead minnow)	=	1-10 mg/L
LC50 (96 hrs, Waterflea)	=	10 mg/L
DIETHYLENE GLYCOL		
HYDROQUINONE		
LC50 (96 hrs, Rainbow trout)	=	0,097 mg/l

Other information :

## **13. DISPOSAL CONSIDERATIONS**

Product or contaminated product :

All leftovers, waste or used contaminated products will have to be treated as chemical waste.

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 chemical products are mixed together.

## **14. TRANSPORT INFORMATION**

UN N° : -	Description : NON HAZARDOUS LIQUID			
ADR/RID	Class : NA	Item :NA	TREMCARD :NA	
IMDG/ADNR	Class : NA	EmS :NA	Mar.Poll. :N	
	Pack.gr.: NA	MFAG :		
ICAO/IATA	Class : NA	Pass. < :NA	Instr. :NA	
	Pack.gr.: NA	Cargo < :NA	Instr. :NA	

NA = Not Applicable

## **15. REGULATORY INFORMATION**

Chemical identity : HYDROQUINONE

Warning sign EU :

Symbol(s) : Xn

R(isk) phrase(s) :

R36	: Irritating to eyes.
R40	: Possible risks of irreversible effects.
R43	: May cause sensitization by skin contact.

S(afety) phrase(s) :

S24	: Avoid contact with skin.
S37	: Wear suitable gloves.

Exposure limits :

Other information :

## **16. OTHER INFORMATION**

The information in this MSDS is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.

### **List of distributors :**

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