

MATERIAL SAFETY DATA SHEET

Catalogue N°: 958553 Date: 24/10/2004

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1. Identification of the substance or preparation

ANATOMIX PLUS DEVELOPER REPLENISHER C 500ML

1.2. Use of the substance/preparation

Photographic developer

1.3. Company/undertaking identification

FUJI HUNT PHOTOGRAPHIC CHEMICALS NV.

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1.4. Emergency telephone

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation: aqueous solution

Components contributing to hazard:

w/w%	CAS N°	EINECS N°	Components Symb. R-phrases
7-15	64-19-7	200-580-7	ACETIC ACID C R:10-35
50-70	111-46-6	203-872-2	DIETHYLENE GLYCOL Xn R:22
3-7	92-43-3	202-155-1	1-PHENYL-3-PYRAZOLIDONE XnN R:22-51/53

3. HAZARDS IDENTIFICATION

Most important hazards :

Harmful if swallowed.

Causes burns.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.

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)

ACETIC ACID	
MAK-value(TRGS 900)	= 10 ppm - 25 mg/m ³
TLV-TWA	= 10 ppm - 25 mg/m ³
TLV-STEL	= 15 ppm - 38 mg/m ³
DIETHYLENE GLYCOL	
MAK-value(TRGS 900)	= 10 ppm - 44 mg/m ³
1-PHENYL-3-PYRAZOLIDONE	
MAK-value(TRGS 900)	= NAV
TLV-TWA	= NAV

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 >= 0,38 mm, breakthrough time > 480 min)
neoprene (thickness >= 0,65 mm, breakthrough time > 240 min).
butyl rubber (thickness >= 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
Flash point °C	: NA
Density (20°C) Kg/L	: 1.11
Solubility in water (25°C)	: Completely
pH value (25°C)	: 2.43
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 oxidising material(s).
- 10.3. Hazardous decomposition products
Formation of CO₂, CO, NO_x is possible.

11. TOXICOLOGICAL INFORMATION

Acute toxicity (INGREDIENTS INFORMATION)

ACETIC ACID	
LD50 (Oral Rat)	= 3310 mg/kg
LD50 (Dermal Rat)	= 1060 mg/kg
DIETHYLENE GLYCOL	
LD50 (Oral Rat)	= 12565 mg/kg
LD50 (Dermal rabbit)	= 11890 mg/kg
1-PHENYL-3-PYRAZOLIDONE	
LD50 (Oral Rat)	= 200 mg/kg

Eye contact
Causes burns.

Skin contact
Causes burns.

Ingestion
Causes burns.
Harmful if swallowed.

Inhalation
Causes burns.

12. ECOLOGICAL INFORMATION

Ecotoxicity (INGREDIENTS INFORMATION)

ACETIC ACID	
LC50 (Pimephales promelas, 96h)	= 88 mg/l
LC50 (Goldfish, 24h)	= 423 mg/l
LC50 (Bluegill, 96h)	= 75 mg/l
LC50 (Daphnia magna straus, 24h)	= 32-47 mg/l
DIETHYLENE GLYCOL	
LC50 (Pimephales promelas, 96h)	= > 100 mg/L
1-PHENYL-3-PYRAZOLIDONE	
LC50 (Pimephales promelas, 96h)	= 1-10 mg/L
LC50 (Daphnia, 96h, Waterflea)	= 10 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 01 Water-based developer and activator solutions

14. TRANSPORT INFORMATION

Limited Quantities (LQ)

UN N° : 2790	PSN : ACETIC ACID SOLUTION	(with > 10% but < 50% acid, by mass)	
ADR/RID	Class : 8	Item :32C	TREMCARD :8.2790-001
	Pack.gr.: III		
IMDG/ADNR	Class : 8	EmS :F-A	Mar.Poll. :N
	Pack.gr.: III		
ICAO/IATA	Class : 8	Pass. < :5L	Instr. :818
	Pack.gr.: III	Cargo < :60L	Instr. :820

15. REGULATORY INFORMATION

EU Classification and User Label Information:

Contains : ACETIC ACID
DIETHYLENE GLYCOL

Symbol(s) : C

R(isk) phrase(s) :

R22 : Harmful if swallowed.
R34 : Causes burns.
R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S(afety) phrase(s) :

S23 : Do not breathe vapour.
S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S46 : If swallowed, seek medical advice immediately and show this container or label.

Other information :

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.

 Date of issue: 01.04.2004 Supersedes edition of -

NAv : Not available NA : Not applicable
 RISK PHRASES MENTIONED IN PARAGRAPH 2:
 R10 : Flammable.
 R22 : Harmful if swallowed.
 R35 : Causes severe burns.
 R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

List of distributors :

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