



According to directive 2001/58/EC

MATERIAL SAFETY DATA SHEET

Catalogue N° : 949974 Printing date : 17/06/2006

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

1.1. Identification of the substance or preparation

M-FIX FIXER & REPLENISHER 5L

1.2. Use of the substance/preparation

Photographic fixer

1.3. Company/undertaking identification

FUJI HUNT PHOTOGRAPHIC CHEMICALS NV.

EUROPARK NOORD 21-22

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BELGIUM

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1.4. Emergency telephone

+32 (0)3 760 02 00

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation: aqueous solution

Components contributing to hazard:

w/w%	CAS N°	EINECS N°	Components Symb. R-phrases
2-5 .	64- 19-7 .	200-580-7 .	ACETIC ACID C R:10-35

3. HAZARDS IDENTIFICATION

Most important hazards :

Not classified as a hazardous product conform EEC Dangerous Substances

Directive and Dangerous Preparation Directive.

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)

ACETIC ACID

MAK (Deutschland, TRGS 900)	=	10 ppm - 25 mg/m ³
TLV-TWA	=	10 ppm - 25 mg/m ³
TLV-STEL	=	15 ppm - 38 mg/m ³

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	: Colourless
Melting point/range	: < 5 °C
Boiling point/range	: > 100 °C
pH value (25°C)	: 5,00
Density (20°C) Kg/L	: 1,31
Solubility in water (25°C)	: Completely

10. STABILITY AND REACTIVITY

10.1. Conditions to avoid

The product is stable under normal storage conditions.

10.2. Materials to avoid

None.

10.3. Hazardous decomposition products

Formation of CO₂, CO, NH₃, NO_x, H₂S, SO₂ is possible.

11. TOXICOLOGICAL INFORMATION

Acute toxicity (INGREDIENTS INFORMATION)

ACETIC ACID

LD50 (Oral Rat) = 3310 mg/kg

LD50 (Dermal Rat) = 1060 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity (INGREDIENTS INFORMATION)

ACETIC ACID

LC50 (Fish, 96 hours) = 10 mg/l

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 (24h-48h)

13. DISPOSAL CONSIDERATIONS

Dispose of according to local and national regulations. Containers must be

disposed of in accordance with local regulations.

EWC: 09 01 04 Fixer solutions

14. TRANSPORT INFORMATION

UN N° : - PSN : NON HAZARDOUS LIQUID

ADR/RID

Class:NA labels :- Pack. Group:-

Code :NA TREMcard :NA Spec. Prov.:-

Pack. Inst.:- Lim. Quant.:-

IMDG

Class:NA Subs. Risk :NA Pack. Group:NA

EmS fire:NA EmS Storage:NA IBC. Inst. :-

Pack. Inst.:- Lim. Quant.:-

Mar.Poll:N

ICAO/IATA

Class:NA Subs. Risk :NA Pack. Group:NA

Passenger and Cargo Aircraft. Pkg Inst:NA Max Net
Qty/Pkg:NA

Cargo Aircraft Only . Pkg Inst:NA Max Net
Qty/Pkg:NA

Ltd Qty . Pkg Inst:- Max Net Qty/Pkg:-

15. REGULATORY INFORMATION

EU Classification and User Label Information:

Contains : -

Symbol(s) :

R(isk) phrase(s) :

R_ : -

S(afety) phrase(s) :

S_ : -

Other information :

WGK: 1

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: 01.10.2005

Supersedes edition of: 01.04.2004

NAv : Not available NA : Not applicable

RISK PHRASES MENTIONED IN PARAGRAPH 2:

R10 : Flammable.

R35 : Causes severe burns.