

MATERIAL SAFETY DATA SHEET

Catalogue N°: 967448 Date: 24/10/2004

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- 1.1. Identification of the substance or preparation
X-FIX HF FIXER & REPLENISHER 4,5L
- 1.2. Use of the substance/preparation
Photographic fixer
- 1.3. Company/undertaking identification
FUJI HUNT PHOTOGRAPHIC CHEMICALS NV.
EUROPARK NOORD 21-22
9100 SINT-NIKLAAS
BELGIUM
TEL: +32 (0)3 760 02 00
FAX: +32 (0)3 776 91 22
- 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
5-10 .	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-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

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	: 1.331
Solubility in water (25°C)	: Completely
pH value (25°C)	: 5
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

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 (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

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

Product is not classified for any mode of transportation.
 UN N° : - PSN : NON HAZARDOUS LIQUID
 ADR/RID Class : NA Item :NA TREMCARD :NA
 Pack.gr.: NA
 IMDG/ADNR Class : NA EmS :NA Mar.Poll. :N
 Pack.gr.: NA
 ICAO/IATA Class : NA Pass. < :NA Instr. :NA
 Pack.gr.: NA Cargo < :NA Instr. :NA

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: 01.04.2004 Supersedes edition of -

NAv : Not available NA : Not applicable
 RISK PHRASES MENTIONED IN PARAGRAPH 2:
 R10 : Flammable.
 R35 : Causes severe burns.

List of distributors :

FUJI HUNT Photographic Chemicals Ltd . Orchard Court V Binley Business Park Coventry CV3 2TQ UNITED KINGDOM Tel: +44 2 476 45 55 75 Fax: +44 2 476 54 71 07	FUJI HUNT Photographic Chemicals SARL . 12 Rue Des Chardonnerets ZAC Paris Nord II BP 60343 95941 Roissy CDG Tremblay en France FRANCE Tel: +33 1 48 63 72 57 Fax: +33 1 49 38 00 76	FUJI HUNT Photographic Chemicals GmbH . Opelring 5-9 64572 Büttelborn 2 DEUTSCHLAND Tel: +49 6 15 27 12 20 Fax: +49 6 15 27 12 229
FUJI HUNT Photographic Chemicals N.V.	FUJI HUNT Photographic Chemicals AB .	FUJI HUNT Photographic Chemicals Srl .

Europark Noord 21-22
9100 Sint-Niklaas
BELGIUM
Tel: +32 3 760 02 00
Fax:+32 3 776 91 22

Bergkällavägen
P.O. BOX 321
19230 Sollentuna
SVERIGE
Tel: +46 8 59 47 09 50
Fax: +46 8 59 47 09 59

Via Torri Bianche 3
Edificio Larice
20059 Vimercate (MI)
ITALIA
Tel: +39 039 69 90 41
Fax: +39 039 68 58 486