

MATERIAL SAFETY DATA SHEET

Catalogue N°: 914135 Date: 24/10/2004

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1. Identification of the substance or preparation

X-FIX FIX REP B 688ML

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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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
15-30 .	10043-01-3 .	233-135-0 .	ALUMINIUM SULPHATE Xi R:36

3. HAZARDS IDENTIFICATION

Most important hazards :

Irritating to eyes.

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)

ALUMINIUM SULPHATE

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 \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
Flash point °C : NA
Density (20°C) Kg/L : 1.299
Solubility in water (25°C) : Completely
pH value (25°C) : 1.18
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 alkalis.
- 10.3. Hazardous decomposition products
Formation of H₂S, SO₂ is possible.

11. TOXICOLOGICAL INFORMATION

Acute toxicity (INGREDIENTS INFORMATION)

ALUMINIUM SULPHATE

LD50 (Oral Rat) = $>$ 5000 mg/kg

Eye contact

Irritating to eyes.

12. ECOLOGICAL INFORMATION

Ecotoxicity (INGREDIENTS INFORMATION)

ALUMINIUM SULPHATE

LC50 (Goldfish, 96h) = 100 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 : ALUMINIUM SULPHATE
Symbol(s) : Xi
R(isk) phrase(s) :
R36 : Irritating to eyes.
S(afety) phrase(s) :
S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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.

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NAV : Not available NA : Not applicable
RISK PHRASES MENTIONED IN PARAGRAPH 2:
R36 : Irritating to eyes.

List of distributors :

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