

1. Identification of the product and the company

- 1.1 Commercial name of the product: **FOMAFIX**
1.2 Identification of the company: FOMA Bohemia Ltd
J.Krušinky
501 04 Hradec Králové (ČZ)
Telephone: 495 733 111
Telefax: 495 733 384
Company ID: 62024078
Emergency telephone number: Toxicological information centre
Na bojišti 1, 128 08 Prague
Telephone: 224 919 293

2. Composition

Aqueous solution of chemicals.

The product contains these substances:

Chemical name	Classification R-phrases	S-phrases	Content in %	CAS-No.	ES No. (EINECS)
Acetic acid	C R: 10-35	S:1/2-23-26-45	1-5	64-19-7	200-580-7
Ammonium thiosulfate	not classified as dangerous		10-50	7783-18-8	231-982-0

3. Hazards identification

The most important effects to human health when using:

- . they are not known

4. First aid measures

General measures:

- 4.1 Inhalation: In case of inhalation, move the involved person to fresh air. If necessary, seek medical advice.
4.2 Skin contact: Take off the contaminated clothing, wash off thoroughly the involved spots with plenty of water.
4.3 Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes, if necessary, seek medical advice.
4.4 Ingestion: If conscious, drink plenty of water. Do not ever give a drink to an unconscious person. Seek medical advice.

5. Fire-fighting measures

Suitable extinguishers: water – dry chemicals – CO₂

Special risk: The product in itself is not flammable. In case of fire, sulfur dioxide can arise. After extinguishment measure with appropriate equipment.

24 hour transportation emergency telephone number: Chemtrec 800-424-9300

6. Accidental release measures

- 6.1 Personal precautions: Avoid skin and eye contact. Use personal protective equipment (eye and skin protection)
- 6.2 Environmental precautions: Avoid release to surface and ground water and drainage.
- 6.3 Recommended methods for clearing up and disposal: Let the concentrate soak to proper absorption medium, dispose through entitled firm.

7. Handling and storage

- 7.1 Handling advice: Use proper means not to damage packaging. Avoid close contact with this chemical. Make the operation solution according to instruction.
- 7.2 Storage: Store in dry, cool, well ventilated room in original packaging, away from food. Avoid contact with strong acids.
- 7.3 Further information: Packing material: PE bottle in paper box (group packing)

8. Exposure control and personal protection

- 8.1 Technical measures:
- 8.2 Control parameters: Acetic acid 98 -100 % M.P.C. limit value: 50 mg/m³
average value: 25 mg/m³
- 8.3 Personal protective equipment:
Respiratory system protection: not required
Eye protection: safe glass or protective glasses
Hand protection: rubber or plastic gloves
Skin protection: proper working suit
- 8.4 Further information: Keep away from food and drink. When using, do not smoke. Avoid close contact with skin. Wash hands before break and at the end of workshift.

9. Physical and chemical properties

Form:	liquid
Colour:	yellowish
Odour:	not particular
pH value (at 20 °C):	5,5 – 5,8
Boiling point (°C):	> 100
Melting point (°C):	< 0 °C
Ignition point (°C):	-
Flammability:	non-flammable
Self-ignition:	-
Explosion limits – upper limit: (Vol. %):	no
lower limit: (Vol. %):	no
Oxidation properties:	no
Vapour tension:	less than 20 mbar
Density (at 20 °C):	1,29 - 1,31 g/cm ³
Solubility:	unlimited water solubility

10. Stability and reactivity

- Stability conditions: the product is stable under common conditions
- Substances and materials to avoid: strong bases
- Hazardous products of decomposition: no under common conditions
by contact with bases ammonia is released

11. Toxicological information

SO₂ (sulfur dioxide): LD₅₀/inhalation/1 h/test rat: 2520 ml/m³
Acetic acid (98 – 100 %): LD₅₀/ingestion/test rat = 3310 mg/kg RTECS, 1648
LD₅₀/skin/rabbit = 1060 mg/kg RTECS, 1648
LC₅₀/inhalation/1 h/mouse = 13,8 mg/l

12. Ecological information

Acetic acid (98 – 100 %): ECO(bacteria): > 1000 mg/l
LCO(fish): 1000 mg/l
100 % biologically removable

Effect to the environment: The product has not been yet tested in practice that way. But toxicological information about its components is available. The product is middle acid.

13. Disposal information

Remains of the concentrate dispose in a safe manner in accordance with local regulations.
The packaging without chemicals (rinsed) can be recycled.

14. Transport information

The product is not subject any regulations concerning transport.

15. Regulatory information

Classification:
Symbol of danger: the product is not classified as dangerous

16. Further information

Use: Concentrate of acid rapid fixer for processing of black and white films.
Packing: 500 ml PE bottle
10 x 500 ml (group packing)