

1. Identification of the product and the company

- 1.1 Commercial name of the product: **FOMADON R-09**
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 hazardous substances:

Chemical name	Classification R-phrases	S-phrases	Content in %	CAS-No.	ES No. (EINECS)
p-aminophenol	mut3,Xn,N R: 20/22-40-50/53	S:2-28-36/37-60-61	1-5	123-30-8	204-616-2
Potassium hydroxide	C R: 22-35	S:1/2-26-36/37/39-45	1-5	1310-58-3	215-181-3

3. Hazards identification

The most important effects to human health when using:

- . etching
- . possible risk of irreversible effects

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

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. If necessary, seek medical advice.
- 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, toxic gases and fumes can arise.

Protection equipment: breathing apparatus

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

8. Exposure control and personal protection

- 8.1 Technical measures:
- 8.2 Control parameters:
- 8.3 Personal protection 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:	yellow
Odour:	not particular
pH value (at 20 °C):	> 12,0
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):	1,23 - 1,28 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: aluminium, strong acids
- Hazardous products of decomposition: under common conditions no, by contact with acids sulfur dioxide can release.

11. Toxicological information

- p-aminophenol*: LD₅₀/ingestion/test rat: 375 mg/kg
- Potassium hydroxide* : LD₅₀/ingestion/test rat: 365 mg/kg
- At acute exposition etching to eyes, skin and mucous tissues. Etching even to respiratory system by contact with acids.

12. Ecological information

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 strong alkaline.
It contents: p-aminophenol, hardly removable in biological way.

13. Disposal information

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

14. Transport information

Transport road/railway

The product is according to the ADR agreement (Collection of international treaties No. 6/2002) classified as:

Class 8
UN 1719
Identity No. 80
Warning label 8

Maximum total amount for one transport unit: 333 l

15. Regulatory information

Classification:

Symbol of danger:

R phrase:

S phrase:

C – caustic

N – dangerous to the environment

34 – causes burns

40 – possible risk of irreversible effects

51/53 - toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

1/2 – keep locked up and out of reach of children

26 – in case of contact with eyes, rinse immediately with plenty of water and seek medical advice

36/37/39 - wear suitable protective clothing, gloves and eye/face protection

45 – in case of accident or if you feel unwell, seek medical advice immediately and show the container or label.

61 – avoid release to the environment

16. Further information

Use: Concentrate of negative developer for processing of black and white films

Packing: 250 ml PE bottle in packing 36 x 250 ml