

**24 hour transportation emergency telephone number: Chemtrec 800-424-9300****1. Identification of the product and the company**

- 1.1 Commercial name of the product: **FOMAFIX – P, (U 1)**  
 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**

The product (small and great part) contains these substances:

Chemical name	Classification R-phrases	S-phrases	Content in %	CAS-No.	ES No. (EINECS)
Sodium thiosulfate cryst.	Xi R: 36/37/38	S: 26-36	80-90	7772-98-7	231-867-5
Sodium pyrosulfite	Xn R: 22-31-37-41	S: 26-39	10-20	7681-57-4	231-673-0

The great part contains: Sodium thiosulfate (x 5 H<sub>2</sub>O) Content in (%): 100

The small part contains: Sodium pyrosulfite Content in (%): 100

**3. Hazards identification**

The most important effects to human health when using:

- harmful if swallowed
- toxic gas is liberated by contact with acids
- irritating to skin
- risk of serious damage to eyes

**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. Induce vomiting. Seek medical advice.

**5. Fire-fighting measures**

Suitable extinguishers: water – dry chemicals – CO<sub>2</sub>

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

**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: Gather up mechanically to appropriate containers, 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.

7.3 Further information: Packing material: PE bag, tapaten bag, paper box

## **8. Exposure control and personal protection**

8.1 Technical measures:

8.2 Control parameters: *Sodium pyrosulfite*: M.P.C. – G = 5 mg/m<sup>3</sup>

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**

	<b>Sodium thiosulfate</b>	<b>Sodium pyrosulfite</b>
Form:	solid substance	solid substance
pH value:	6,5-9 (10 % solution, 25 °C)	3,5-5 (5 % solution, 20 °C)
Boiling point (°C):	-	-
Melting point (°C):	48	100
Flammability:	non-flammable	non-flammable
Self-ignition:	-	-
Explosion limits – upper limit: (Vol. %):	no	no
lower limit: (Vol. %):	no	no
Density (at 20 °C, g/cm <sup>3</sup> ):	1,74	1,68
Water solubility (at 20 °C, g/100 g):	70,1	47,0

## **10. Stability and reactivity**

Stability conditions: the product is stable under common conditions

Substances and materials to avoid: strong acids, bases and oxidants

Hazardous products of decomposition: under common conditions no, sulphur dioxide is liberated by contact with acids

## **11. Toxicological information**

Acute toxicity: *Sodium pyrosulfite*: LD<sub>50</sub>/ingestion/test rat: 1540 mg/kg  
Risk of serious damage to eyes.

Irritating to eyes and skin. Irritating to respiratory system by contact with acid.

No sensitising effect is known.

## **12. Ecological information**

*Sodium pyrosulfite*: Acute ecotoxicity: LC<sub>50</sub>/96 h/fish: 150-220 mg/l DIN 38412/15  
EC<sub>50</sub> (daphnia)/48 h: 89 mg/l OECD 202  
EC<sub>50</sub> (algae)/72 h: 48 mg/l  
COS mg/g: 165

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  
Empty paper container can be recycled.  
PE and tapaten containers without chemicals (rinsed) can be recycled.

## **14. Transport information**

The product is subject no regulations concerning transport.

## **15. Regulatory information**

### **Classification:**

Symbol of danger:

R phrase:

**Xn** - harmful

**22** – harmful if swallowed

**31** – contact with acids liberates toxic gas

**38** – irritating to skin

**41** – risk of serious damage to eyes

S phrase:

**2** – keep out of reach of children

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

**39** – wear eye/face protection

**46** –if swallowed, seek medical advice immediately and show the container

## **16. Further information**

Use: Two-piece powder fixer for processing of black and white photomaterials

Packing: **FOMAFIX P for 1 l**

195 g = 20 g of the small part + 175 g of the great part (for 1 l of fixer working solution)  
*group packing 30 x 195 g*

**FOMAFIX P for 5 l**

975 g = 100 g of the small part + 875 g of the great part (for 5 l of fixer working solution)  
*group packing 14 x 975 g*