SAFETY DATA SHEET

for dangerous substances and preparations according to The Chemicals (Hazard Information and Packaging) Regulations (EU directive 2001/58/EC)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND

THE COMPANY/UNDERTAKING

Identification of the substance or preparation:

Commercial product name: X 44 - ALKAFIX (TF3)

Application: Photographic fixer

Company/undertaking identification: AMALOCO B.V., Nieuwelandstraat 7, 7731 TH Ommen, The Netherlands, Phone 00.31.529-452628, Fax 00.31.529-456931.

Emergency telephone number: 00.31.30.2748888.

(Dutch National Poison Information Centre)

Only for physicians and medical specialists in case of an accidental poisoning.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization:Preparation containing among others:Water [7732-18-5]20-50%Ammonium thiosulfate [7783-18-8]20-50%Sodium sulfite [7757-83-7]5-10%

Sodium Metaborate [10555-76-7](Xi, R36-37-38) 0,5- 1% There are no other components present which, to the best of our current knowledge and

in the concentrations applied, are hazardous to health or environment.

3. HAZARDS IDENTIFICATION

Not a dangerous preparation. But please observe the information given in this safety data sheet

4. FIRST AID MEASURES

Eyes: In case of contact with eyes, rinse immediately with plenty of water and if irritation symptoms persist - seek medical advice.

Skin: After contact with skin, wash immediately with plenty of water and soap. Inhalation: Move the person to fresh air at once. Provide rest. Seek medical advice if any discomfort continues.

Ingestion: If swallowed, induce vomiting; wash the mouth with plenty of water, drink some water and seek medical advice.

5. FIRE-FIGHTING MEASURES

This preparation is not flammable.

Extinguishing media, suitable: foam, powder, CO₂ and water.

Not be used: none

Protection against fire and explosion: none

Special exposure hazard arising the substance or preparation itself, combustion products, resulting gases: In case of a fire sulfur dioxyde, carbon monoxyde and/or carbon dioxy-de may be formed.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with eyes.

Environmental precautions: Do not empty in drains.

Methods for cleaning up: Small spills can be flushed down the drain with large quantities of water, if local regulations permit. Larger spills see section 13, for disposal considerations.

Further information: Inform authorities if large amounts are involved.

7. HANDLING AND STORAGE

Handling: Read and follow manufacturer recommendations. Avoid spilling, skin and eye contact.

Personal hygiene: When using do not eat, drink or smoke during the job.

Storage: Keep closed container at a temperature between 10-20°C. in a chemical storage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Process conditions: eyewash station.

Respiratory protection: sufficient ventilation.

Eye protection: Safety goggles recommended.

Hand protection: Use of protective gloves recommended.

Skin protection: Remove contaminated clothing. Wear appropriate clothing to prevent skin contact.

The composition of this fixer is such that during processing some Ammonia emits. In a well ventilated darkroom it is no problem to keep the Ammonia concentration under the control limit of 14 mg/m³.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	liquid,
Odour:	slightly to Ammonia
Boiling point/boiling range:	>100°C
Melting point/melting range:	< 0°C
Flash point:	>100°C

25 January 2006 page 2 form 4

Ignition temperature:	>150°C
Flammability (solid/gas):	
Autoflammability:	
Explosive properties:	
Oxidizing properties:	
Vapour pressure (38°C):	mbar
Relative density (20°C):	1,30 - 1,32
pH value (concentrate) (20°C):	8,5 - 9,5
pH value (1+4)(20°C):	8,0 - 9,0
Solubility in water (20°C):	100%
Viscosity (°C):	
Further information:	

10. STABILITY AND REACTIVITY

Stability: Normally stable. Conditions to be avoided: avoid excessive heat. Materials to be avoided: avoid contact with oxidizing agents, strong acids and strong alkalis. Hazardous decomposition products: sulfur dioxyde, ammonia.

11. TOXICOLOGICAL INFORMATION

of individual components: Ammonium thiosulfate, EINECS 2319820:	
LD 50 (oral,rat)	2.890 mg/kg.
Sodium sulfite EINECS 2318214	
LD50 (oral, rat)	2.610 mg/kg.
Sodium Metaborate EINECS 2343900	2 400 /
LD 50 (oral, rat)	2.400 mg/kg.

12. ECOLOGICAL INFORMATION

of individual components:	LC50 (fish, 96h)	WGK
Ammonium thiosulfate:	200 mg/l.	1
Sodium sulfite:	220 mg/l.	1
Sodium Metaborate	51 mg/l.	1

Of the preparation:

According to the German "Wassergefährdungsklasse" (Water endangering class) classification system:

WGK 1 (slightly water endangering).	
Working strength solution:	
Chemical oxygen demand:	mg/l O ₂
Biochemical oxygen demand (5 days):	mg/l O ₂

25 January 2006 page 3 from 4

13. DISPOSAL CONSIDERATIONS

Apply silver recovery (with steel wool cartrige or electrolytical silver recovery equipment) before disposal.

Obtain the consent of local pollution control authorities before discharging the desilvered fixer to wastewater plants, otherwise special waste. Waste that cannot be discharged to sewer may have to handled by a licenced hazardous waste contractor. European waste catalogue-number: 09.01.04*

14. TRANSPORT INFORMATION

Not restricted	•	
IMDG	:	Not classified.
UN No.	:	Not classified.
ICAO/IATA	:	Not classified.
RID/ADR	:	Not classified.

15. REGULATORY INFORMATION

Labelling according to The Chemicals (Hazard Information and Packaging). Regulations (EU Directive 1999/45/EG): Not a dangerous preparation.

16. OTHER INFORMATION

Keep out of reach of children. Date of issue: 25 January 2006.

This information and recommendations contained herein are based on correct and fatual date. However, no express or implied guarantee of warranty of any kind is made with respect or implied guarantee or warranty of any kind is made with respect this information. Use this information only to supplement other information you have gathered and then an independent determination about the completeness and suitability of all information ensure the proper use and disposal of this product and the health and safety of users.