

MATERIAL SAFETY DATA SHEET

ABX ALPHALYSE 0.4L - A91A00241 - 24/09/03

1. Product and company identification

1.1 Identification of the product:

Product name: ABX ALPHALYSE 0.4L

Product code: Ref. ABX ==> **0906004**

1.2 Company identification:

ABX Diagnostics - rue du Caducée - Parc Euromédecine -

34184 MONTPELLIER CEDEX 4 - FRANCE

TEL (33) 4 67 14 15 16 FAX (33) 4 67 14 15 17

1.3 Emergency phone number: Contact the nearest first-aid station

2. Composition/information on ingredients

Chemical nature: Lysing agent.

Hazardous ingredients: Quaternary Ammonium Salt < 20%

(name, concentration) Potassium Cyanide < 0.1%

Dangerous preparation according to 67/548/EEC - 99/45/EEC (Yes/No) : No, concentration is lower than the directives threshold.

3. Hazards identification

Most important hazards: Harmful if inhaled, swallowed or in contact with the skin.

Specific risks: Extremely toxic fumes are given off when in contact with an acid.

4. First-aid measures

Inhalation: Breathe in fresh air deeply.

Skin contact: Rinse abundantly with soapy water.

Eye contact: Rinse abundantly with water.

Ingestion: Artificial respiration with added oxygen as in the case of intoxication by cyanidric acid.

5. Fire-fighting measures

Extinguishing media: This product is non-flammable

Specific risks:

Special protective equipment:

Additional recommendations:

6. Accidental release measures

Personal precautions: Wear laboratory gloves and protective goggles.

Environmental precautions: Neutralise with sodium hypochlorite solution.

Methods for cleaning / absorption: After neutralisation, soak up but do not throw down the sink (incineration).

7. Handling and storage

7.1 Handling:

Technical measures: Avoid contact with the eyes, skin and respiratory tract.

Laboratory gloves and protective goggles.

Precautions: Always handle in a well ventilated area.

Handling recommendations: As applied to all toxic liquids.

7.2 Storage:

Technical measures:

Storage conditions: Store in an airtight recipient. Store at 18 to 25°C and away from the light.

Incompatible materials: Avoid all contact with acids or aqueous acid environments as extremely toxic cyanide vapour may be formed.

Packaging materials: Wrap in polyethylene or other plastic.

MATERIAL SAFETY DATA SHEET

ABX ALPHALYSE 0.4L - A91A00241 - 24/09/03

8. Exposure controls/personal protection

Specific control parameters:

Technical measures:

Eye wash, safety shower, laboratory gloves, protective goggles in case of prolonged handling

Respiratory protection:

Hand protection:

Eye protection:

Skin protection:

Hygiene measures:

9. Physical and chemical properties

Physical state:

Liquid.

Auto-flammability:

Colour:

Colorless.

Explosive properties:

Odour:

Smells of cyanide.

Oxidizing properties:

pH :

10 ± 0,5.

Vapour pressure:

Boiling point:

Relative density:

Melting point:

Solubility:

Aqueous solution miscible with water.

Flashing point:

Partition coefficient:

Flammability (solid, gas) :

Non- flammable.

Other data:

10. Stability and reactivity Expiry date.

Conditions to avoid:

Avoid all contact with the next reagents : BASOLYSE, BASOLYSE II.
Avoid all contact with acids or aqueous acid environments as highly toxic cyanide acid vapours may be formed.

Materials to avoid:

Hazardous decomposition products:

Cyanide acid vapours formed upon contact with acids.

Other data:

11. Toxicological information

Acute toxicity:

The danger of serious intoxication exists in case of absorption or inhalation.
LD 50 Potassium Cyanide : **10 mg/kg** (oral, rat).

Chronic toxicity:

(sensitization, carcinogenicity, mutagenicity, teratogenicity, etc)

Inhalation:

Skin contact:

Eye contact:

Ingestion:

Other data:

12. Ecological information

Mobility:

The product is dangerous in water, and toxic to fish and plancton.
KCN in its pure state is extremely toxic to fish.
LC 50 leuciscus idus "forma orfus" : 0.07 - 1 mg/l.

Degradability:

Bioaccumulative potential:

Ecotoxicity:

Other hazardous effects:

13. Disposal considerations

Surplus or waste (residues):

Neutralise the product (see procedure as described) before discarding.

Contaminated packaging:

Incineration.

14. Transport information (International regulations)

By land:

Not classified according to directive 99/45/EEC

By river:

Not classified according to directive 99/45/EEC

By air:

Not classified according to directive 99/45/EEC

By sea:

Not classified according to directive 99/45/EEC

General information:

MATERIAL SAFETY DATA SHEET

ABX ALPHALYSE 0.4L - A91A00241 - 24/09/03

15. Regulatory information Not classified according to directive 99/45/EEC

Labelling according to EEC directives

Symbols:

R phrases:

S phrases:

Substances:

Other regulatory requirements: In no way does this information exempt the user from knowing about or applying all the national or international regulations relating to his/her activity.

16. Other information

This sheet is a complement to instructions for use but does not replace them. Information contained herewith is based on our current knowledge of the product, at the date shown, and is correct to the best of our knowledge.

Furthermore, the user's attention is drawn to the dangers of using this product for anything other than its intended use.

The user must accept the sole responsibility and take precautions accordingly for the use of this product.