

MATERIAL SAFETY DATA SHEET

ABX Pentra Clean-Chem CP - A91A00553-

2004/03/31

1. Product and company identification

1.1 Identification of the product:

Product name: ABX Pentra Clean-Chem CP

Product code: Ref. ABX ==> A11A01755

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: REAGENT : 1 x 30 ml

Hazardous ingredients: (name, concentration)		CAS#	Symbol	Risk phrase
Sodium hydroxide	< 2%	1310-73-2	C	R35

Dangerous preparation according to 67/548/EEC - 99/45/EEC (Yes/No) : Yes

3. Hazards identification

Most important hazards: Xi Irritant

Specific risks: Irritating to eyes and skin

4. First-aid measures

Inhalation: Supply for fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Skin contact: Remove contaminated clothing. Flush skin with plenty of water.

Eye contact: Immediately flush eyes with plenty of water with palpebral fissure open, for at least 10 minutes. After flushing, cover the eye with a clean cloth. Call in an ophthalmologist immediately.

Ingestion: Secure, that the person is conscious, have patient drink water or any other readily available liquid except for alcohol. Avoid vomiting (risk of perforation!). Call in a(n) (emergency) physician. Clean contaminated clothes.

5. Fire-fighting measures

Extinguishing media: Water spray jet, carbon dioxide, extinguishing powder or suitable extinguishing foam.

Specific risks:

Special protective equipment: Put on breath protecting equipment, wear protecting clothing to prevent contact with skin and eyes.

Additional recommendations: Suit extinguishing measures to surroundings. Pay attention to the usual fire and explosion hazards.

6. Accidental release measures

Personal precautions: Avoid substance contact. Do not inhale vapours/aerosols. Spilled product may cause slippery surfaces.

Environmental precautions: Prevent from getting into sewage, water, ground.

Methods for cleaning / absorption: Neutralise spill with dild. hydrochloric acid or sulfuric acid, if necessary pick up with harmless org. Acid (citric acid) or mixtures of org. Acids (e.g. Basosorb, with indicator to show point of neutrality) or with suitable liquid-absorbing material. After removal, flush contaminated area with plenty of water. Remove pollutes with absorbing paper. All the material used for cleaning up must be disposed of as laboratory waste.

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7. Handling and storage

7.1 Handling:

Technical measures:

Open and handle containers with care.

Precautions:

Do not pipet by mouth. Do not eat, drink or smoke in working areas. Wear suitable one-way rubber gloves at work. Avoid every splash and formation of aerosols. Further advice see point 8.

Handling recommendations:

7.2 Storage:

Technical measures:

Keep reagents in tightly closed original containers. Don't use aluminium, tin or zinc containers.

Storage conditions:

Store in a cool dry place (2-8°C).

Incompatible materials:

Packaging materials:

8. Exposure controls/personal protection

Specific control parameters: None

Ingredients subject to exposure guidelines:

CAS No.	Index No.	Name	%w/w	Type	Value	Unit
1310-73-2	011-002-00-6	Sodium hydroxide	<2	MAK	2	mg/m ³ total dust
				TLV-C	2	mg/m ³

Technical measures:

Respiratory protection:

Required if dust and aerosols are generated.

Hand protection:

Protective gloves.

Eye protection:

Safety goggles.

Skin protection:

Protective clothing.

Hygiene measures:

Safety shower, eyewash.

Do not eat, drink or smoke at work.

Change contaminated clothing immediately.

Wash hands after work. Preventive skin protection is recommended.

9. Physical and chemical properties

Physical state:

Liquid

Colour:

Odour:

Odourless

pH :

Strongly alkaline
(pH>13)

Boiling point:

Melting point:

Not applicable

Flashing point:

Not applicable

Flammability (solid, gas) :

Auto-flammability:

Explosive properties:

Oxidizing properties:

Vapour pressure:

Relative density:

1.02 g/cm³ at 20°C

Solubility:

Partition coefficient:

Other data:

10. Stability and reactivity

Conditions to avoid:

Strong heating.

Contact with light metals, ammonium compounds, acids.

Materials to avoid:

Hazardous decomposition products:

Contact with light metals : Hydrogen (risk of explosion).

Contact with ammonium compounds: Ammonia

Other data:

Reacts strongly with acids.

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11. Toxicological information

Acute toxicity:

Classification-relevant LD/LC50-value:

Ingredient	Parameter	Type	Value	Unit	Species	RTECS No.
Sodium hydroxide 10% solution	LDL0	Oral	500	mg/kg	Rabbits	WBN4900000

Chronic toxicity:

(sensitization, carcinogenicity,
mutagenicity, teratogenicity, etc)

There are no relevant indications for carcinogenic, mutagenic or developmental/reproductive effects.

Inhalation:

Irritations of mucous membranes

Skin contact:

Irritations

Eye contact:

Irritations

Ingestion:

Irritations of mucous membranes in mouth, pharynx oesophagus and gastrointestinal tract.

Other data:

Other hazardous properties cannot be excluded.

Due to the method of calculation of the EC General Classification in the latest valid version the product presents the following hazards: **Irritant**

12. Ecological information

Mobility:

No information available.

Degradability:

Prevent from getting into sewage, water, ground.

Bioaccumulative potential:

No information available.

Ecotoxicity:

NaOH is toxic to fish. LC50: 189 mg/L (1N solution)

Other hazardous effects:

Harmful effects by change of pH. No ecological problems are to be expected when the product is handled and used with due care and attention.

13. Disposal considerations

Surplus or waste (residues):

The product must be disposed of as a laboratory chemical according to local regulations. Please contact responsible authority. Used reagents dispose of as laboratory waste.

Contaminated packaging:

Dispose of according to local regulations.

Recommendation: remove residues. Empty containers should be returned to local recyclers.

Recommended cleaning agent : water.

14. Transport information (International regulations)

By land:

By river:

By air:

REAGENT

- Proper shipping name: SODIUM HYDROXIDE SOLUTION.
- UN-Number: **UN 1824** (Excepted Quantities).
- Hazard Class and packaging group: **8, III**.
- Label(s): Corrosive.
- Packing instruction (passenger aircraft): **IATA 819 (5L)**.
- Unit volume: 30 ml.
- Sales unit: 1 bottle/ kit.

By sea:

General information:

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15. Regulatory information

Labelling according to EEC directives

This preparation is classified according to EC directives.

Dangerous substance :

Sodium hydroxide

NaOH

Symbols:

Xi

Irritant

R phrases:

R36/38

Irritant to eyes and skin

S phrases:

S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

Follow working instruction. For commercial users and public research investigation or educational establishments only.

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.