Reviewed on 15.05.2006

Service der sich lohnt

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Material Safety Data Sheet According to 91/155 EEC

Printing date 15.05.2006

1 Identification of the substance/preparation and of the company/undertaking

- · Product details
- · Trade name: Neutol liq. NE
- · Article number: BVMGB, BVMF8
- · Application of the substance / the preparation

Photographic black and white developer concentrate

· Manufacturer/Supplier:

a&o imaging services uk ltd.

27 Great West Road

Brentford

Middlesex

TW8 9AX

UK

· Further information obtainable from:

Productmanagement, Tel.: + 49 7042 913-41, Fax: + 49 7042 913-18

· Information in case of emergency:

EUROPE:

Phone: + 49 214 30 99300 (Security service Bayer Industries Services Leverkusen)

2 Composition/information on ingredients

- · Chemical characterization
- $\cdot \textit{Description:} \ \textit{Mixture of substances listed below with nonhazardous additions}.$

L	· Dangerous compone	nts:	
I	CAS: 584-08-7	potassium carbonate	12.8%
	EINECS: 209-529-3	X Xi; R 36/38	
I	CAS: 64-02-8	tetrasodium ethylenediaminetetraacetate	3.7%
	EINECS: 200-573-9	X n; R 22	
I		1,4-dihydroxybenzene	2.2%
	EINECS: 204-617-8	Carc. Cat. 3, Muta. Cat. 3; 🞇 Xn, 援 N; R 22-40-41-43-68-50	

[·] Additional information: For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

· Hazard description:



Xn Harmful

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 36 Irritating to eyes.

R 40 Limited evidence of a carcinogenic effect.

R 43 May cause sensitisation by skin contact.

R 68 Possible risk of irreversible effects.

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· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 First aid measures

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing: If symptoms persist consult doctor.

5 Fire-fighting measures

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Protective equipment: No special measures required.

6 Accidental release measures

- · Person-related safety precautions: Not required.
- · Measures for environmental protection:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

7 Handling and storage

- · Handling:
- · Information for safe handling: No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.

8 Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

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· Ingredients with limit values that require monitoring at the workplace:

123-31-9 1,4-dihydroxybenzene

WEL Long-term value: 0.5 mg/m³

- · Additional information: The lists valid during the making were used as basis.
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- · Respiratory protection: Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

· General Information

Form: Fluid

Colour: According to product specification

Odour: Characteristic

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 100°C

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Trade name: Neutol liq. NE

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· Flash point:	Not applicable.	
· Self-igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Vapour pressure at 20°C:	23 hPa	
· Density at 20°C:	1.375 g/cm³	
· Solubility in / Miscibility with water:	Fully miscible.	
· pH-value at 20°C:	11.7	
· Viscosity: Kinematic at 20°C:	11 s (DIN 53211/4)	
· Solvent content: Organic solvents: Water:	0.0 % 60.4 %	
· Solids content:	39.6 %	

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Dangerous reactions No dangerous reactions known.
- · Dangerous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Acute toxicity:
- · LD/LC50 values relevant for classification:

123-31-9 1,4-dihydroxybenzene

Oral LD50 320 mg/kg (rat)

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

12 Ecological information

· General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system.

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Danger to drinking water if even small quantities leak into the ground.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

13 Disposal considerations

- · Product:
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

· Land transport ADR/RID (cross-border)



· ADR/RID class: 8 (C5) Corrosive substances.

Danger code (Kemler): 80
UN-Number: 1719
Packaging group: III
Hazard label: 8

· Description of goods: 1719 CAUSTIC ALKALI LIQUID, N.O.S. (potassium carbonate solution)

· Maritime transport IMDG:

· IMDG Class: · UN Number: 1719
· Marine pollutant: No

· Proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S. (potassium carbonate solution)

· Air transport ICAO-TI and IATA-DGR:

· ICAO/IATA Class: · UN/ID Number: 1719

· Proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S. (potassium carbonate solution)

15 Regulatory information

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

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Trade name: Neutol liq. NE

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· Code letter and hazard designation of product:

Xn Harmful

· Hazard-determining components of labelling:

1,4-dihydroxybenzene

· Risk phrases:

36 Irritating to eyes.

- 40 Limited evidence of a carcinogenic effect.
- 43 May cause sensitisation by skin contact.
- 68 Possible risk of irreversible effects.

· Safety phrases:

- 2 Keep out of the reach of children.
- 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.
- 46 If swallowed, seek medical advice immediately and show this container or label.

· National regulations:

Class	Share in %
Wasser	60.4
I	2.2

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant R-phrases

- 22 Harmful if swallowed.
- 36/38 Irritating to eyes and skin.
- 40 Limited evidence of a carcinogenic effect.
- 41 Risk of serious damage to eyes.
- 43 May cause sensitisation by skin contact.
- 50 Very toxic to aquatic organisms.
- 68 Possible risk of irreversible effects.
- · Department issuing MSDS: Productmanagement department
- · Contact: Mr. Vollhofer, a&o imaging solutions, Tel.: + 49 7042 913-43

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