



Printing date 30.03.2012 Version 3 Revision: 30.03.2012

# 1 Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Trade name: A 17 liquid

· Article number: 19716

· 1.2 Relevant identified uses of the substance or mixture and uses advised against

To this day we do not have any information about the identified use at the moment. These data are available we will add these to the safety data sheet.

· Application of the substance / the preparation

Photochemicals

Photographic developer

Reserved for industrial and professional use.

· 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Calbe Chemie GmbH

Stadtfeld 31 D-39240 Calbe

Tel.: +49 (0)39291 425-0 Fax: +49 (0)39291 425-25 e-mail: info@calbe-chemie.de

www.calbe-chemie.de

Informing department:

Tel.: +49 (0)39291 42515 E-Mail: kr@calbe-chemie.de

· 1.4 Emergency telephone number: Tel.: 0700-24112112 (CAL)

# 2 Hazards identification

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

H319 Causes serious eye irritation. Eye Irrit. 2

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xi; Irritant

R36/38: Irritating to eyes and skin.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

· 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.

· Classification system:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

(Contd. on page 2)





Printing date 30.03.2012 Version 3 Revision: 30.03.2012

Trade name: A 17 liquid

(Contd. of page 1)

#### · 2.2 Label elements

#### · Labelling according to EU guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

· Code letter and hazard designation of product:



Xi Irritant

# · Risk phrases:

36/38 Irritating to eyes and skin.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### · Safety phrases:

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

60 This material and its container must be disposed of as hazardous waste.

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

#### · Special labelling of certain preparations:

Contains 1,4-dihydroxybenzene (hydroquinone), 4-(Methylamino)-phenolsulphate. May produce an allergic reaction.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

### 3 Composition/information on ingredients

- · 3.2 Mixtures
- · **Description:** Mixture of the substances listed below with harmless additions.

# · Dangerous components: CAS: 1310-73-2 EINECS: 215-185-5 Skin Corr. 1A, H314 (Contd. on page 3)

GB -





Printing date 30.03.2012 Version 3 Revision: 30.03.2012

Trade name: A 17 liquid

(Cor	ntd. of page 2)
CAS: 123-31-9 EINECS: 204-617-8 Xi R41 Xi R43 N R50 Carc. Cat. 3, Muta. Cat. 3	0.5-2.0%
Muta. 2, H341; Carc. 2, H351 Eye Dam. 1, H318 Aquatic Acute 1, H400 Acute Tox. 4, H302; Skin Sens. 1, H317	
CAS: 55-55-0 EINECS: 200-237-1  4-(Methylamino)-phenolsulphate  Xn R22-48/22  Xi R43  N R50/53  STOT RE 2, H373  Aquatic Chronic 1, H410  ↑ Acute Tox. 4, H302; Skin Sens. 1, H317	< 0.5%
SVHC	
1330-43-4 boric acid, disodium salt	

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

#### 4 First aid measures

- · 4.1 Description of first aid measures
- · General information Instantly remove any clothing soiled by the product.
- · After inhalation Supply fresh air.
- · After skin contact Instantly wash with water and soap and rinse thoroughly.
- · After eye contact

Rinse opened eye for several minutes under running water (> 15 min). Then consult doctor.

· After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

· 4.2 Most important symptoms and effects, both acute and delayed

No known symptoms to date.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# 5 Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents Use fire fighting measures that suit the environment.
- · For safety reasons unsuitable extinguishing agents Water with a full water jet.
- 5.2 Special hazards arising from the substance or mixture

Can be released in case of fire sulphur dioxide (SO2)

(Contd. on page 4)



Page 4/9

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 30.03.2012 Version 3 Revision: 30.03.2012

Trade name: A 17 liquid

(Contd. of page 3)

- · 5.3 Advice for firefighters
- · Protective equipment: Do not inhale explosion gases or combustion gases.
- · Additional information The product is not flammable

#### 6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- 6.2 Environmental precautions: Do not allow to enter drainage system, surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:

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

· 6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### 7 Handling and storage

- · 7.1 Precautions for safe handling Keep containers tightly sealed.
- · Information about protection against explosions and fires:

No special measures required.

The product is not flammable

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and containers: No special requirements.
- Information about storage in one common storage facility:

Keep away from foodstuffs, beverages and food.

- Further information about storage conditions: Protect from frost.
- · Recommended storage temperature: 5-25 °C
- Storage class

**LGK 12** 

(German Technical Rule for Hazardous Substance – TRGS 510)

· 7.3 Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · 8.1 Control parameters
- · Components with limit values that require monitoring at the workplace:

1330-43-4 boric acid, disodium salt

OES Long-term value: 1 mg/m<sup>3</sup>

- · Additional information: The lists that were valid during the compilation were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

The usual precautionary measures should be adhered to general rules for handling chemicals. Keep away from foodstuffs, beverages and food.

(Contd. on page 5)





Printing date 30.03.2012 Version 3 Revision: 30.03.2012

Trade name: A 17 liquid

(Contd. of page 4)

Take off immediately all contaminated clothing.

Wash hands during breaks and at the end of the work.

Avoid contact with the eves and skin.

Do not eat, drink or smoke while working.

· Breathing equipment: Not required.

#### · Protection of hands:

Protective gloves.

The protective gloves to be used must comply with the specifications of the EC directive 89/686/ EEC and the resultant standard EN 374.

This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.

Only use chemical-protective gloves with CE-labelling of category III.

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

#### Material of gloves

	Thickness	Breakthrough time
	(mm)	(min)
Nitril rubber	0,38	> 480
Neoprene	0,65	> 240
Butyl rubber	0,36	> 480
Avoid natural r	ubber gloves.	

· As protection from splashes gloves made of the following materials are suitable:

Synthetic gloves

Value for permeation: Level:

 $\geq$  3 (60 min)

· Eye protection: Safety glasses

· Body protection: Light weight protective clothing

# 9 Physical and chemical properties

· General Information

· Appearance:

Form: Fluid Colour: Light yellow · Odour: Not characteristic

· pH-value at 25 °C: 13.0

· Change in condition

Melting point/Melting range: Not determined Boiling point/Boiling range: > 100 °C

· Flash point: Not applicable · Self-inflammability:

Product is not selfigniting. · Danger of explosion: Product is not explosive.

· Critical values for explosion:

**Oxidizing properties** None

(Contd. on page 6)





Printing date 30.03.2012 Version 3 Revision: 30.03.2012

Trade name: A 17 liquid

(Contd. of page 5)

	(Some of page
Vapour pressure at 20℃:	23 hPa
Density at 20°C	1.092 g/cm <sup>3</sup>
Solubility in / Miscibility with	
Water:	miscible
· Viscosity:	
dynamic:	Not determined
kinematic:	Not determined

Organia salvanta

Organic solvents: 0.0 %

• 9.2 Other information No further relevant information available.

# 10 Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · 10.3 Possibility of hazardous reactions Reacts with acids releasing sulphur dioxide
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known

# 11 Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:				
123-31-9 1,4-dihydroxybenzene (hydroquinone)				
Oral	LD50	320 mg/kg (rat)		
Dermal	LD50	>900 mg/kg (rat)		
55-55-0 4-(Methylamino)-phenolsulphate				
Oral	LD50	237 mg/kg (rat)		
Dermal	LD50	> 1000 mg/kg (rat)		

- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritant effect.
- · Sensitization: Sensitizing effect by skin contact is possible by prolonged exposure.

#### · Additional toxicological information:

This statement was deduced from the properties of the single components.

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

Irritant

Hydroquinone has been included in the German "TRGS 905" (Technical Rules for Dangerous Substances/Index of carcinogen and mutagen substances or substances dangerous to reproductive systems), and has been classified as "Category 3" of carcinogen and mutagen substances

(Contd. on page 7)





Printing date 30.03.2012 Version 3 Revision: 30.03.2012

Trade name: A 17 liquid

(Contd. of page 6)

(3 = category of lowest dangerousness). The according EU committees have not yet evaluated this classification.

### 12 Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: Not determined
- · 12.2 Persistence and degradability Not determined
- · 12.3 Bioaccumulative potential Not determined
- · Behaviour in environmental systems: Not determined
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:

**HYDROQUINONE** 

toxicity to fish (LC50): 0,044 mg/l/96 h (Pimephales promelas)

toxicity to daphnia (EC50): 0,29 mg/l/48 h (Daphnia magna)

toxicity to algae (IC50) 0,335 mg/l/72 h (Selenastrum capricornutum)

4-(Methylamino)-phenolsulphate

toxicity to fish (LC50): 0,25 mg/l/96 h (Pimephales promelas)

toxicity to daphnia (EC50): 19 mg/l/48 h (Daphnia magna)

- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

At present there are no ecotoxicological assessments.

Water hazard class 2 (German Regulation) (Self-assessment): Water-endangering.

Harmful to aquatic organisms

The product does not contain organically bounded halogens (AOX-free).

- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

# 13 Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

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

Must be specially treated under adherence to official regulations.

· European waste catalogue

09 01 01 water-based developer and activator solutions

- Uncleaned packagings:
- · Recommendation:

Non contaminated packagings can be used for recycling.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

(Contd. on page 8)





Printing date 30.03.2012 Version 3 Revision: 30.03.2012

Trade name: A 17 liquid

(Contd. of page 7)

· Recommended cleaning agent: Water, if necessary with cleaning agent.

Transport information	
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Anno of MARPOL73/78 and the IBC Code	ex II  Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	-

# 15 Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations
- · Water hazard class: Water hazard class 2 (Self-assessment): water-endangering.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# 16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H341 Suspected of causing genetic defects.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.

(Contd. on page 9)





Printing date 30.03.2012 Version 3 Revision: 30.03.2012

Trade name: A 17 liquid

H410	Very toxic to aquatic life with long lasting effects.	(Contd. of page 8)
R22	Harmful if swallowed.	
R35	Causes severe burns.	
R40	Limited evidence of a carcinogenic effect.	
R41	Risk of serious damage to eyes.	

R43 May cause sensitisation by skin contact.
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R50 Very toxic to aquatic organisms.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R68 Possible risk of irreversible effects.

- · Recommended restriction of use No public product, only for commercial use
- · Department issuing data specification sheet:

Laboratory

Tel.: +49 (0)39291 425-15

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

#### · Sources

applicable EEC directives:

- 1999/45
- 1907/2006
- 1272/2008

Internal physical tests, MSDS of the ingredients,

Information system on hazardous substances of the German Social Accident Insurance (GESTIS-database on hazardous substances), http://www.dguv.de/ifa/en/gestis/stoffdb/index.jsp

·\* Data compared to the previous version altered.

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