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

Printing date 04.01.2012 version no: 2 Revision: 04.01.2012

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

· Product identifier

· Trade name: NEOPRESS HC conc. 1L

· Article number: 100111, 44116

- · Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the preparation Black and white developer for photographic use
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

TETENAL AG & CO. KG

Schützenwall 31-35

D-22844 Norderstedt / Germany

Tel.: +49 040 521 45-0 Fax: +49 040-52145-296

www.tetenal.com; eMail: info@tetenal.com

**TETENAL LTD** 

2 Meridian West, Meridian Business Park,

Leicester LE19 1WX / Great Britain

Tel. 0116 - 289 3644; eMail: uk@tetenal.com; www.tetenaluk.com

- · Further information obtainable from: Department environment and safety. E-mail: info@tetenal.com
- Emergency telephone number: Poison Information Centre Berlin (Germany): +49 (0) 30 30686 790

### 2 Hazards identification

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



GHS08 health hazard

Muta. 2 H341 Suspected of causing genetic defects.

Carc. 2 H351 Suspected of causing cancer.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

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



Xn; Harmful

R22-40-68: Harmful if swallowed. Limited evidence of a carcinogenic effect. Possible risk of irreversible effects.

\_\_\_\_\_



Xi; Irritant

R41: Risk of serious damage to eyes.

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Xi; Sensitising

R43: May cause sensitisation by skin contact.

 $\Psi_{2}$ 

N; Dangerous for the environment

R50: Very toxic to aquatic organisms.

R31: Contact with acids liberates toxic gas.

### · 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 according to the latest editions of the EU-lists, and extended by company and literature data.

#### · Label elements

### · Labelling according to EU guidelines:

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

· Code letter and hazard designation of product:





Xn Harmful

N Dangerous for the environment

#### · Hazard-determining components of labelling:

Hydroquinone (1,4-dihydroxybenzene)

#### · Risk phrases:

- 22 Harmful if swallowed.
- 31 Contact with acids liberates toxic gas.
- 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.

### · 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.
- 29 Do not empty into drains.

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.

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

## 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

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Dangerous compon	ents:	
CAS: 107-21-1 EINECS: 203-473-3	ethylene glycol  Xn R22  Acute Tox. 4, H302	5-10%
CAS: 111-42-2 EINECS: 203-868-0	2,2'-iminodiethanol  Xn R22-48/22; Xi R38-41  STOT RE 2, H373; € Eye Dam. 1, H318; ♠ Acute Tox. 4, H302; Skin Irrit. 2, H315	5-10%
CAS: 123-31-9 EINECS: 204-617-8	Hydroquinone (1,4-dihydroxybenzene)  Xn R22-40-68; Xi R41; Xi R43; N R50  Carc. Cat. 3, Muta. Cat. 3  Muta. 2, H341; Carc. 2, H351; Eye Dam. 1, H318; Aquatic Acute 1, H400; ↑ Acute Tox. 4, H302; Skin Sens. 1, H317	5-10%
CAS: 140-01-2 EINECS: 205-391-3	Diethylenetriaminepentaacetic acid, pentasodium salt (DTPA-Na5); Sodium diethylene triamine pentaacetic aicd;Pentasodium(carboxylatomethyl) iminobis(ethylenenitril)tetraacetate  Xi R36  Repr. 2, H361d; Acute Tox. 4, H332; Eye Irrit. 2, H319	1- <2%
CAS: 13047-13-7 EINECS: 235-920-3	4-(hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one (Dimezone S)  Xn R22; Xi R43; N R51/53  Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Sens. 1, H317	<1%
CAS: 10117-38-1 EINECS: 233-321-1	Potassium sulphite	10-<25%

## 4 First aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing/shoes soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

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

Supply fresh air; consult doctor in case of complaints.

- · 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: Call for a doctor immediately.
- · Information for doctor:

Hinweise in der GESTIS Gefahrstoffdatenbank: http://www.dguv.de/ifa/de/gestis/stoffdb/index.jsp

## **5** Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

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

· Special hazards arising from the substance or mixture

Under certain fire conditions, traces of other toxic gases cannot be excluded.

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· Advice for firefighters

· Protective equipment: No special measures required.

## 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

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

Dispose contaminated material as waste according to item 13.

Pick up mechanically.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

- · Handling:
- Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with oxidizing and acidic materials.

· Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Store under lock and key and out of the reach of children.

Recommended storage temperature: 5-25°C

Protect from exposure to the light.

## 8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

### 107-21-1 ethylene glycol (5-10%)

WEL Short-term value: 104\*\* mg/m³, 40\*\* ppm

Long-term value: 10\* 52\*\* mg/m³, 20\*\* ppm

Sk \*particulate \*\*vapour

## 123-31-9 Hydroquinone (1,4-dihydroxybenzene) (5-10%)

WEL Long-term value: 0.5 mg/m<sup>3</sup>

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

Keep away from foodstuffs, beverages and feed.

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Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

#### · Respiratory protection:

Not necessary if room is well-ventilated.

required at the appearance from fumes/vapours/aerosol. Filter ABEK

· Protection of hands:



Protective gloves

#### Impervious 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.

Butyl rubber, BR

Nitrile rubber, NBR

Neoprene gloves

### · Penetration time of glove material

Gove material: Butyl rubber with breakthroug-time: ≥ 480 min, layer thickness: ≥0,4 mm

Gloves made of nitrile rubber with layer thickness >0,38mm and breakthrough-time >480min

Glove material: Neopren with breakthrough time: >240 min, layer thickness: >0,65 mm

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

· Body protection: Protective work clothing

## 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Fluid
Colour: Light yellow
Odour: Characteristic

• **pH-value at 20°C:** 9.8

· Change in condition

Melting point/Melting range: Undetermined. Boiling point/Boiling range: Undetermined.

· Flash point: Not applicable.

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· Ignition temperature:	370°C	
· 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:	1.21 g/cm³	
· Solubility in / Miscibility with water:	Fully miscible.	
· Viscosity:	Tuny miserote.	
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	7.5 %	
Water:	52.5 %	

## 10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions Contact with acids releases irritant gases.
- · Hazardous decomposition products: Irritant gases/vapours

## 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

	Acute toxicity:					
ſ	· LD/LC50 values relevant for classification:					
Γ	111-42-	-42-2 2,2'-iminodiethanol				
ſ	Oral	LD50	1600 mg/kg (rat)			
	Dermal	LD50	12200 mg/kg (rabbit)			
Γ	123-31-9 Hydroquinone (1,4-dihydroxybenzene)					
	Oral	LD50	320 mg/kg (rat)			

- Primary irritant effect:
- · on the skin: No irritant effect.
- $\cdot$  on the eye: Strong irritant with the danger of severe eye injury.
- · 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:

Harmful Irritant

EN



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## 12 Ecological information

· Toxicity

· Acquatic toxicity:

111-42-2 2,2'-iminodiethanol

LC50 133 mg/l (daphnia magna (Großer Wasserfloh))

123-31-9 Hydroquinone (1,4-dihydroxybenzene)

EC50 48h: 0.29 mg/l (daphnia magna (Großer Wasserfloh))

LC50 96h: 0.044 mg/l (Pimephales promelas)

- · Persistence and degradability No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system.

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

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

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

· European waste catalogue

09 01 01\* water-based developer and activator solutions

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

### 14 Transport information

· Land transport ADR/RID (cross-border)



• **ADR/RID class:** 9 (M6) Miscellaneous dangerous substances and articles.

Danger code (Kemler): 90
UN-Number: 3082
Packaging group: III
Hazard label: 9

· **Special marking:** Symbol (fish and tree)

· UN proper shipping name: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(hydroquinone)

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· Tunnel restriction code E

· Maritime transport IMDG:



· IMDG Class: 9
· UN Number: 3082
· Label 9
· Packaging group: III
· EMS Number: F-A,S-F
· Marine pollutant: Yes

Symbol (fish and tree)

· Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(hydroquinone)

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class: 9 · UN/ID Number: 3082 · Label 9

· **Special marking:** Symbol (fish and tree)

· Packaging group:

· Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(hydroquinone)

· UN "Model Regulation":

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

- · Environmental hazards: Product contains environmentally hazardous substances: hydroquinone
- · Special precautions for user Warning: Miscellaneous dangerous substances and articles.

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Labelling according to EU guidelines:

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

· Code letter and hazard designation of product:



Xn Harmful

N Dangerous for the environment

· Hazard-determining components of labelling:

Hydroquinone (1,4-dihydroxybenzene)

- · Risk phrases:
- 22 Harmful if swallowed.
- 31 Contact with acids liberates toxic gas.
- 40 Limited evidence of a carcinogenic effect.

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- 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.

#### · 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.
- 29 Do not empty into drains.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- If swallowed, seek medical advice immediately and show this container or label.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## 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 phrases

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H341 Suspected of causing genetic defects.
- H351 Suspected of causing cancer.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.
- R22 Harmful if swallowed.
- R36 Irritating to eyes.
- R38 Irritating to skin.
- 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.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R68 Possible risk of irreversible effects.
- · Department issuing MSDS: Department product safety
- · Contact: e-mail: sida@tetenal.com
- · 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

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

\* Data compared to the previous version altered.