

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

Printing date 03.12.2013

version no: 1

Revision: 03.12.2013

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- . 1.1 Product identifier**
- . Trade name:** NEOFIN BLAU
- . Article number:** 100126
- . 1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- . Application of the substance / the preparation** Developer for photographic use
- . 1.3 Details of the supplier of the safety data sheet**
- . Manufacturer/Supplier:**
TETENAL Europe GmbH
Schützenwall 31-35
D-22844 Norderstedt / Germany
Phone: ++49 (0) 40 521 45-0; Fax: +49 (0) 40-52145-296
www.tetenal.com; E-Mail: info@tetenal.com
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2 Meridian West, Meridian Business Park, Leicester LE19 1WX
Phone: 0116 - 289 3644; E-Mail: uk@tetenal.com; www.tetenaluk.com
- . Further information obtainable from:** Department environment and safety. E-Mail: info@tetenal.com
- . 1.4 Emergency telephone number:** Poison Information Centre Berlin (Germany): +49 (0) 30 - 30686 790

SECTION 2: Hazards identification

- . 2.1 Classification of the substance or mixture**
- . Classification according to Regulation (EC) No 1272/2008**
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
-
- . Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
- 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 according to the latest editions of the EU-lists, and extended by company and literature data.
-
- . 2.2 Label elements**
- . Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- . Hazard pictograms** Void
- . Signal word** Void
- . Hazard statements**
H412 Harmful to aquatic life with long lasting effects.
- . Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
- . Additional information:**
Contains Bis(4-hydroxy-N-methylanilinium) sulphate, hydroquinone (1,4-dihydroxybenzene). May produce an allergic reaction.
- . 2.3 Other hazards**
- . Results of PBT and vPvB assessment**
- . PBT:** Not applicable.

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. vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

. 3.2 Chemical characterization: Mixtures

. **Description:** Mixture of substances listed below and with nonhazardous additions.

. Dangerous components:

CAS: 584-08-7 EINECS: 209-529-3 Reg.nr.: 01-2119532646-36-xxxx	potassium carbonate ☒ Xi R36/38 ☒ Skin Irrit. 2, H315; Eye Irrit. 2, H319	5-10%
CAS: 140-01-2 EINECS: 205-391-3 Reg.nr.: 01-2119474445-33-xxxx	Diethylenetriaminepentaacetic acid, pentasodium salt (DTPA-Na5) ☒ Xn R20-63 ☒ Repr. 2, H361; ☒ Acute Tox. 4, H332	1- <2%
CAS: 55-55-0 EINECS: 200-237-1 Index number: 650-031-00-4	Bis(4-hydroxy-N-methylanilinium) sulphate ☒ Xn R22-48/22; ☒ Xi R43; ☒ N R50/53 ☒ STOT RE 2, H373; ☒ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☒ Acute Tox. 4, H302; Skin Sens. 1, H317	0.1- <1%
CAS: 92-43-3 EINECS: 202-155-1 Index number: 606-022-00-2	1-phenyl-3-pyrazolidone (Phenidone A) ☒ Xn R22; ☒ N R51/53 ☒ Aquatic Chronic 2, H411; ☒ Acute Tox. 4, H302	<1%
CAS: 123-31-9 EINECS: 204-617-8 Index number: 604-005-00-4 Reg.nr.: 01-2119524016-51-xxxx	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	<1%

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

SECTION 4: First aid measures

. 4.1 Description of first aid measures

. **General information:** Immediately remove any clothing/shoes soiled by the product.. **After inhalation:** 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. Then consult a doctor.

. After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

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

No further relevant information available.

. 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

. 5.1 Extinguishing media

. Suitable extinguishing agents:

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

. 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

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- . **5.3 Advice for firefighters**
- . **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- . **6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation
- . **6.2 Environmental precautions:**
 - Inform respective authorities in case of seepage into water course or sewage system.
 - Dilute with plenty of water.
 - Do not allow to enter sewers/ 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).
 - Pick up mechanically.
- . **6.4 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.

SECTION 7: Handling and storage

- . **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- . **Information about fire - and explosion protection:** No special measures required.
- . **7.2 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 acids.
 - . **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.
- . **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- . **Additional information about design of technical facilities:** No further data; see item 7.
- . **8.1 Control parameters**
- . **Ingredients with limit values that require monitoring at the workplace:**
 - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- . **Additional information:** The lists valid during the making were used as basis.
- . **8.2 Exposure controls**
- . **Personal protective equipment:**
- . **General protective and hygienic measures:**
 - 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 required.

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. Protection of hands:

Protective gloves

Impervious gloves

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

Glove material	breakthrough-time	layer thickness
Butyl rubber:	≥ 480 min	≥0,4mm
nitrile:	≥480min	≥0,38mm
Neopren:	≥240min	≥0,65mm

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

. Eye protection: Safety glasses**. Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

. 9.1 Information on basic physical and chemical properties**. General Information****. Appearance:**

Form:	Fluid
Colour:	Colourless
Odour:	Odourless

. pH-value at 20 °C: 10.4**. Change in condition****Melting point/Melting range:** Undetermined.**Boiling point/Boiling range:** > 100 °C**. 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:** 1.1 g/cm³**. Solubility in / Miscibility with****water:** Fully miscible.**. Solvent content:**

Organic solvents:	0.0 %
Water:	>87 %

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. 9.2 Other information No further relevant information available.

SECTION 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 No dangerous reactions known.
- . 10.4 Conditions to avoid No further relevant information available.
- . 10.5 Incompatible materials: No further relevant information available.
- . 10.6 Hazardous decomposition products: Irritant gases/vapours

SECTION 11: Toxicological information

- . 11.1 Information on toxicological effects
 - . Acute toxicity:
- | | | |
|---|------|-----------------|
| . LD/LC50 values relevant for classification: | | |
| 55-55-0 Bis(4-hydroxy-N-methylanilinium) sulphate | | |
| Oral | LD50 | 237 mg/kg (rat) |
- . Primary irritant effect:
 - . on the skin: No irritant effect.
 - . on the eye: No irritating effect.
 - . Sensitization: Sensitizing effect by skin contact is possible by prolonged exposure.

SECTION 12: Ecological information

- . 12.1 Toxicity
- | | | |
|---|------|---|
| . Aquatic toxicity: | | |
| 55-55-0 Bis(4-hydroxy-N-methylanilinium) sulphate | | |
| EC50 | 72h: | 10 mg/l (alg) |
| | | 19 mg/l (daphnia magna (Großer Wasserfloh)) |
| | 48h: | 0.02 mg/l (inv) |
- . 12.2 Persistence and degradability No further relevant information available.
 - . 12.3 Bioaccumulative potential No further relevant information available.
 - . 12.4 Mobility in soil No further relevant information available.
 - . Ecotoxicological effects:
 - . Remark: Harmful to fish
 - . Additional 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.
 - Danger to drinking water if even small quantities leak into the ground.
 - Harmful to aquatic organisms
 - . 12.5 Results of PBT and vPvB assessment
 - . PBT: Not applicable.
 - . vPvB: Not applicable.
 - . 12.6 Other adverse effects No further relevant information available.

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SECTION 13: Disposal considerations

. 13.1 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
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. Uncleaned packaging:

. Recommendation: Disposal must be made according to official regulations.

. Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: 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 Annex II of MARPOL73/78 and the IBC Code

Not applicable.

. UN "Model Regulation":

-

SECTION 15: Regulatory information

. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

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- H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
.....
R20 Harmful by inhalation.
R22 Harmful if swallowed.
R36/38 Irritating to eyes and 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.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63 Possible risk of harm to the unborn child.
R68 Possible risk of irreversible effects.

. **Contact:** e-mail: sida@tetenal.com

. **Abbreviations and acronyms:**

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

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)

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

. *** Data compared to the previous version altered.**

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