

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/28/2014

Reviewed on 08/28/2014

1: Identification

- . **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 mixture** 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) 40 521 45-296
www.tetenal.com; E-mail: info@tetenal.com
- . **Information department:** Department environment and safety. E-Mail: info@tetenal.com
- . **1.4 Emergency telephone number:**
Poison Information Centre Berlin/Germany: +49 (0) 30 - 30686 790 (English 24hours)

2: Hazard(s) identification

- . **2.1 Classification of the substance or mixture**
- . **Classification according to Regulation (EC) No 1272/2008**
Avoid contact with eyes, skin and clothing. Avoid mist. Keep container closed. Use eye protection, chemical-resistant gloves and skin protection.
Wash thoroughly after handling. **FIRST AID:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and immediately flush skin with soap and with plenty of water. Get medical attention if symptoms occur. If swallowed induce vomiting immediately as directed by medical personnel.



GHS08

Repr. 2 H361 Suspected of damaging fertility or the unborn child.



GHS07

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

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

- . **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

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 labeled due to the calculation procedure of international guidelines.

- . **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- . **2.2 Label elements**

- . **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labeled according to the CLP regulation.

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Hazard pictograms



GHS07 GHS08

Signal word Warning

Hazard-determining components of labeling:

Diethylenetriaminepentaacetic acid, pentasodium salt (DTPA-Na5)
Bis(4-hydroxy-N-methylanilinium) sulphate
hydroquinone (1,4-dihydroxybenzene)

Hazard statements

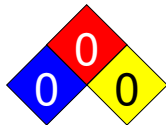
H317 May cause an allergic skin reaction.
H361 Suspected of damaging fertility or the unborn child.
H412 Harmful to aquatic life with long lasting effects.

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.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P321 Specific treatment (see on this label).
P302+P352 IF ON SKIN: Wash with plenty of water.
P405 Store locked up.

Classification system:

NFPA ratings (scale 0 - 4)



Health = 0
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = *0
Fire = 0
Reactivity = 0

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

3: Composition/information on ingredients

3.2 Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

CAS: 584-08-7 RTECS: TS 7750000 Reg.nr.: 01-2119532646-36	potassium carbonate	5-10%
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CAS: 140-01-2 Reg.nr.: 01-2119474445-33	Diethylenetriaminepentaacetic acid, pentasodium salt (DTPA-Na5)	1- <2%
CAS: 55-55-0 Index number: 650-031-00-4 RTECS: SL 8650000	Bis(4-hydroxy-N-methylanilinium) sulphate	0.1- <1%
CAS: 92-43-3 Index number: 606-022-00-2	1-phenyl-3-pyrazolidone (Phenidone A)	<1%
CAS: 123-31-9 Index number: 604-005-00-4 RTECS: MX 3500000 Reg.nr.: 01-2119524016-51	hydroquinone (1,4-dihydroxybenzene)	<1%

4: First-aid measures

. 4.1 Description of first aid measures

- . **General information:** Immediately remove any clothing 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.

5: Fire-fighting measures

. 5.1 Extinguishing media

. Suitable extinguishing agents:

CO₂, extinguishing 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.

. 5.3 Advice for firefighters

. **Protective equipment:** No special measures required.

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.

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See Section 13 for disposal information.

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7: Handling and storage

- . **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- . **Information about protection against explosions and fires:** 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.

8: Exposure controls/personal protection

- . **Additional information about design of technical systems:** No further data; see item 7.
- . **8.1 Control parameters**
- . **Components 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 that were valid during the creation 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.
- . **Breathing equipment:** Not required.
- . **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

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. Penetration time of glove material

Glove material	breakthroug-time	layer thickness
Butyl rubber:	>480 min	≥0,4mm
Nitrile rubber:	>480 min	≥0,38mm
Neoprene:	>240 min	≥0,65mm

The exact break trough 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

9: Physical and chemical properties

. 9.1 Information on basic physical and chemical properties

. General Information

. Appearance:

Form:	Fluid
Color:	Colorless

. Odor: Odorless

. pH-value at 20 °C (68 °F): 10.4

. Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 100 °C (> 212 °F)

. Flash point: Not applicable.

. Auto igniting: Product is not selfigniting.

. Danger of explosion: Product does not present an explosion hazard.

. Vapor pressure at 20 °C (68 °F): 23 hPa (17 mm Hg)

. Density at 20 °C (68 °F): 1.1 g/cm³ (9.18 lbs/gal)

. Solubility in / Miscibility with

Water: Fully miscible.

. Solvent content:

Organic solvents:	0.0 %
Water:	>87 %

. 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 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/vapors

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11: Toxicological information

. 11.1 Information on toxicological effects

. Acute toxicity:

. LD/LC50 values that are relevant for classification:

55-55-0 Bis(4-hydroxy-N-methylanilinium) sulphate

Oral	LD50	237 mg/kg (rat)
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. Primary irritant effect:

. on the skin: No irritant effect.

. on the eye: No irritating effect.

. Sensitization: Sensitizing effect by skin contact is possible with prolonged exposure.

. Additional toxicological information:

. Carcinogenic categories

. IARC (International Agency for Research on Cancer)

123-31-9	hydroquinone (1,4-dihydroxybenzene)	3
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. NTP (National Toxicology Program)

None of the ingredients is listed.

. OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12: Ecological information

. 12.1 Toxicity

. Aquatic toxicity:

55-55-0 Bis(4-hydroxy-N-methylanilinium) sulphate

EC50	72h: 10 mg/l (alg)
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	19 mg/l (daphnia magna (Großer Wasserfloh))
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	48h: 0.02 mg/l (inv)
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. 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 (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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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.

. Uncleaned packagings:

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

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

14: Transport information

. 14.1 UN-Number

. DOT, ADR, ADN, IMDG, IATA Void

. 14.2 UN proper shipping name

. DOT, ADR, ADN, IMDG, IATA Void

. 14.3 Transport hazard class(es)

. DOT, ADR, ADN, IMDG, IATA

. Class Void

. 14.4 Packing group

. DOT, 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":

-

15: Regulatory information

. 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

. Sara

. Section 355 (extremely hazardous substances):

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

. Section 313 (Specific toxic chemical listings):

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

. TSCA (Toxic Substances Control Act):

7732-18-5 water

584-08-7 potassium carbonate

7757-83-7 sodium sulphite

55-55-0 Bis(4-hydroxy-N-methylanilinium) sulphate

92-43-3 1-phenyl-3-pyrazolidone (Phenidone A)

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

29385-43-1 Toly triazole / methyl-1H-benzotriazole (Isomer)

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. Proposition 65

. Chemicals known to cause cancer:

None of the ingredients is listed.

. Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

. Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

. Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

. Cancerogenity categories

. EPA (Environmental Protection Agency)

None of the ingredients is listed.

. TLV (Threshold Limit Value established by ACGIH)

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

A3

. NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

. 15.2 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.

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

. Date of preparation / last revision 08/28/2014 / -

. 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

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Repr. 2: Reproductive toxicity, Hazard Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

. * Data compared to the previous version altered.