

Safety Data Sheet

acc. to OSHA HCS

Printing date 07/14/2014

Reviewed on 07/14/2014

1: Identification

- . **1.1 Product identifier**
- . **Trade name:** ULTRAFIN
- . **Article number:** 100154
- . **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**



GHS08

- | | | |
|---------|------|--|
| Carc. 2 | H351 | Suspected of causing cancer. |
| 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.

- . **Classification system:**

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

- . **Additional information:**

Avoid contact with eyes, skin and clothing. Use eye protection, chemical-resistant gloves and skin protection. Wash thoroughly after handling. First aid: Immediately flush eyes and skin with plenty of water. Remove contaminated clothing. If swallowed induce vomiting immediately as directed by medical personnel. Get medical attention if irritation persists

- . **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



Signal word Warning

Hazard-determining components of labeling:

Bis(4-hydroxy-N-methylanilinium) sulphate
hydroquinone (1,4-dihydroxybenzene)

Hazard statements

- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer.
- 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.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P281 Use personal protective equipment as required.
- P273 Avoid release to the environment.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local regulations.

Classification system:

NFPA ratings (scale 0 - 4)



HMIS-ratings (scale 0 - 4)



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	potassium carbonate	3-5%
RTECS: TS 7750000		
Reg.nr.: 01-2119532646-36		

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CAS: 55-55-0 Index number: 650-031-00-4 RTECS: SL 8650000	Bis(4-hydroxy-N-methylanilinium) sulphate	<1%
CAS: 123-31-9 Index number: 604-005-00-4 RTECS: MX 3500000 Reg.nr.: 01-2119524016-51	hydroquinone (1,4-dihydroxybenzene)	<1%
CAS: 92-43-3 Index number: 606-022-00-2	1-phenyl-3-pyrazolidone (Phenidone A)	<1%

4: First-aid measures

. 4.1 Description of first aid measures

- . **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- . **After skin contact:** Immediately rinse with water.
- . **After eye contact:** Rinse opened eye for several minutes under running water.
- . **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

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

. 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.

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.
- . **Further information about storage conditions:**
 - 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:**

102-71-6 2,2',2''-nitrioltriethanol (alkanolamine) (10-<25%)

TLV (USA) 5 mg/m³

- . **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:**

The usual precautionary measures for handling chemicals should be followed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- . **Breathing equipment:**

Not required.

Ensure adequate ventilation

- . **Protection of hands:**

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
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Butyl rubber:	>480 min	≥0,4mm
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Nitrile rubber:	>480 min	≥0,38mm
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Neoprene:	>240 min	≥0,65mm
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The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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. Eye protection:



Tightly sealed goggles

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:	Light

. pH-value at 20 °C (68 °F): 10.6

. Change in condition

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

. Flash point: Not applicable.

. Ignition temperature: 305 °C (581 °F)

. 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): 1.217 g/cm³ (10.156 lbs/gal)

. Solubility in / Miscibility with

Water: Fully miscible.

. Solvent content:

Organic solvents:	18.3 %
Water:	>59 %
VOC content:	18.3 %

. 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)**

102-71-6	2,2',2''-nitrioltriethanol (alkanolamine)	3
123-31-9	hydroquinone (1,4-dihydroxybenzene)	3

. **NTP (National Toxicology Program)**

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)
	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 (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.

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.

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. 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.

. OSHA-Ca (Occupational Safety & Health Administration)

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 07/14/2014 / -

. 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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

Carc. 2: Carcinogenicity, Hazard Category 2

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.