

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

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

 None of the ingredients is listed.
- . **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
 Universal developer, that brings fine-grained negatives with good contrasts range in light and shadow uses full sensitivity
- . **1.3 Details of the supplier of the safety data sheet**
- . **Manufacturer/Supplier:**
 TETENAL 1847 GmbH
 Schützenwall 31-35
 D-22844 Norderstedt /Germany
 Tel.: +49 (0) 40 521 45-0; Fax: +49 (0)40-52145-296
 www.tetenal.com; E-mail: info@tetenal.com
- . **Further information obtainable from:** Department product safety. E-Mail: sida@tetenal.com
- . **1.4 Emergency telephone number:**
 Poison Information Centre Germany: +49 (0) 30 - 30686 700 (English and German 24 hours)

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.

- . **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.
 P273 Avoid release to the environment.
 P501 Dispose of contents/container in accordance with local regulations.
- . **Additional information:**
 Contains Bis(4-hydroxy-N-methylanilinium) sulphate, hydroquinone. May produce an allergic reaction.
- . **2.3 Other hazards**
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- . **3.2 Chemical characterisation: Mixtures**
- . **Description:** Mixture of substances listed below and with nonhazardous additions.

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. Dangerous components:

CAS: 584-08-7	potassium carbonate	1-5%
EINECS: 209-529-3	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	
Reg.nr.: 01-2119532646-36		
CAS: 7775-19-1	Sodium metaborate, anhydrous	1-5%
EINECS: 231-891-6	⚠ Repr. 2, H361d; ⚠ Eye Irrit. 2, H319	
Reg.nr.: 01-2119516444-44		
CAS: 55-55-0	Bis(4-hydroxy-N-methylanilinium) sulphate	<1%
EINECS: 200-237-1	⚠ STOT RE 2, H373; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1,	
Index number: 650-031-00-4	H410; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	
CAS: 123-31-9	hydroquinone	<1%
EINECS: 204-617-8	⚠ Muta. 2, H341; Carc. 2, H351; ⚠ Eye Dam. 1, H318; ⚠ Aquatic	
Index number: 604-005-00-4	Acute 1, H400 (M=10); ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	
Reg.nr.: 01-2119524016-51		

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

SECTION 4: First aid measures

. **4.1 Description of first aid measures**

- . **General information:** Take affected persons out into the fresh air.
- . **After skin contact:** Immediately rinse with water.
- . **After eye contact:** Rinse opened eye for several (15 min) under running water.
- . **After swallowing:** 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:**
- Use fire extinguishing methods suitable to surrounding conditions.

. **5.2 Special hazards arising from the substance or mixture**

Nitrogen oxides (NOx)

Carbon monoxide (CO)

Sulphur dioxide (SO₂). **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).

. **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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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:** Store only in the original receptacle.
- . **Information about storage in one common storage facility:** Store away from foodstuffs.
- . **Further information about storage conditions:**
 - Protect from heat and direct sunlight.
 - Protect from exposure to the light.
 - Store under lock and key and out of the reach of children.
 - Recommended storage temperature: 5-30°C
- . **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.
- . **DNELs**

- 123-31-9 hydroquinone**

Dermal	Long-term - systemic - effects	128 mg/kg bw/day (wkd)
	Long-term - systemic effects	64 mg/kg bw/day (wkd)
Inhalative	Long-term exposure-local effects	7 mg/m ³ (wkd)
	Long-term - local - effects	1 mg/m ³ (wkd)
	Long-term - systemic effects	1.74 mg/m ³ (wkd)
	Long-term - local effects	0.5 mg/m ³ (wkd)

- . **PNECs**

123-31-9 hydroquinone		
Aquatic compartment - freshwater		0.000114 mg/l (Water)
Aquatic compartment - marine water		0.000114 mg/l (Water)
Aquatic compartment -water,intermittent releases		0.00134 mg/l (Water)
Aquatic compartment -sediment in freshwater		0.00098 mg/kg sed dw (Water)
Aquatic compartment -sediment in marine water		0.000097 mg/kg sed dw (Water)
Terrestrial compartment -soil		0.000129 mg/kg dw (Soil)
Sewage treatment plant (Abwasserreinigungsanlagen)		0.71 mg/l (Sewage Treatment Plant)

. **Additional information:** The lists valid during the making were used as basis.

- . **8.2 Exposure controls**
- . **Personal protective equipment:**
- . **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.
- . **Respiratory protection:** Ensure adequate ventilation
- . **Protection of hands:**

Impervious gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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

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. 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 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: Goggles recommended during refilling

. 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:	Recognisable
. Odour threshold:	Not determined.

. pH-value at 20 °C: 10.6

. Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	>100 °C

. Flash point: Not applicable.

. Flammability (solid, gas): Not applicable.

. Decomposition temperature: Not determined.

. Auto-ignition temperature: Product is not selfigniting.

. Explosive properties: Product does not present an explosion hazard.

. Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

. Vapour pressure at 20 °C: 23 hPa

. Density at 20 °C:	~1.2 g/cm ³
. Relative density	Not determined.
. Vapour density	Not determined.
. Evaporation rate	Not determined.

. Solubility in / Miscibility with water:

Fully miscible.

. Partition coefficient: n-octanol/water: Not determined.

. Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

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. Solvent content:

Organic solvents: 18.5 %
Water: 50-90 %

Solids content: 0.0 %

. 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

- . **10.1 Reactivity** No further relevant information available.
- . **10.2 Chemical stability**
- . **Thermal decomposition / conditions to be avoided:** Stable at environment temperature.
- . **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
 Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- . **11.1 Information on toxicological effects**
- . **Acute toxicity** Based on available data, the classification criteria are not met.
- . **LD/LC50 values relevant for classification:**

584-08-7 potassium carbonate
 Oral LD50 >2,000 mg/kg (rat)
123-31-9 hydroquinone
 Oral LD50 302 mg/kg (rat)
 Dermal LD50 >2,000 mg/kg (rabbit)
- . **Primary irritant effect:**
- . **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- . **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- . **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- . **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- . **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- . **Carcinogenicity** Based on available data, the classification criteria are not met.
- . **Reproductive toxicity** Based on available data, the classification criteria are not met.
- . **STOT-single exposure** Based on available data, the classification criteria are not met.
- . **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- . **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- . **12.1 Toxicity**
- . **Aquatic toxicity:**

55-55-0 Bis(4-hydroxy-N-methylanilinium) sulphate
 EC50 72 mg/l (alg)
 19 mg/l (daphnia magna (Water flea))
 48 mg/l (Invertebrates)
123-31-9 hydroquinone
 EC50 48 mg/l (daphnia magna (Water flea))
 LC50 96 mg/l (fish: Pimephales promelas)

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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 (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.

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
- . **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 Marpol and the IBC Code | Not applicable. | |
| . UN "Model Regulation": | Void | |

SECTION 15: Regulatory information

- . **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- . **Labelling according to Regulation (EC) No 1272/2008** GHS label elements
- . **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

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. **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.
- H341 Suspected of causing genetic defects.
- H351 Suspected of causing cancer.
- H361d Suspected of damaging the unborn child. Route of exposure: Oral.
- 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.

. **Contact:** E: 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 Organisation
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (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 Harmonised 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)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Skin Sens. 1: Skin sensitisation – Category 1
- Muta. 2: Germ cell mutagenicity – Category 2
- Carc. 2: Carcinogenicity – Category 2
- Repr. 2: Reproductive toxicity – Category 2
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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