

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 20.04.2011

version no: 1

Revision: 20.04.2011

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

- **Product identifier**
- **Trade name:** Ultrafin liquid
- **Article number:** 100152 0,25L, 100154 1L, 44062
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation**  
Developer for photographic use  
Universal developer, that brings fine-grained negatives with good contrasts range in light and shadow uses full sensitivity
- **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  
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Leicester LE3 1TH / Great Britain  
Tel.: +44 0870 460 8996 Fax: +44 0870 460 8997, e.mail: uk@tetenal.com, www.tetenal.co.uk
- **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**  
.....  
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.
- **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.
- **Risk phrases:**  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Safety phrases:**  
29 Do not empty into drains.
- **Special labelling of certain preparations:**  
Contains METOL/ p-Methylaminophenolsulfate / bis(4-hydroxy-N-methylanilinium) sulphate, Hydroquinone (1,4-dihydroxybenzene). May produce an allergic reaction.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

(Contd. on page 2)

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**Trade name: Ultrafin liquid**· **vPvB:** Not applicable.

(Contd. of page 1)

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

CAS: 584-08-7 EINECS: 209-529-3	potassium carbonate Xi R36/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-5%
CAS: 55-55-0 EINECS: 200-237-1	METOL/ p-Methylaminophenolsulfate / 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	<1%
CAS: 123-31-9 EINECS: 204-617-8	Hydroquinone (1,4-dihydroxybenzene) Xn R22-40-68; Xi R41; Xi R43; N R50 Muta. 2, H341; Carc. 2, H351; Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Sens. 1, H317	<1%
CAS: 92-43-3 EINECS: 202-155-1	Phenidone A / 1-phenyl-3-pyrazolidone Xn R22; N R51/53 Aquatic Chronic 2, H411; Acute Tox. 4, H302	<2%

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

### 4 First aid measures

· **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 rinse with water.· **After eye contact:** Rinse opened eye for several (15 min) under running water.· **After swallowing:**

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

### 5 Firefighting measures

· **Extinguishing media**· **Suitable extinguishing agents:**CO<sub>2</sub>, 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.

· **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:**

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

(Contd. on page 3)

## Safety data sheet

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(Contd. of page 2)

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).

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.

- **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.

## 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:**

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.

- **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:**

Not required.

Ensure adequate ventilation

- **Protection of hands:**

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.

(Contd. on page 4)

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

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(Contd. of page 3)

Butyl rubber, BR  
Nitrile rubber, NBR  
Neoprene gloves

· **Penetration time of glove material**

Glove material: Butyl rubber with breakthrough-time:  $\geq 480$  min, layer thickness:  $\geq 0,4$  mm

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

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

Safety glasses

· **Body protection:** Protective work clothing

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Light

· **pH-value at 20°C:** 10.6

· **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:**  $> 100^{\circ}\text{C}$

· **Flash point:** Not applicable.

· **Ignition temperature:**  $305^{\circ}\text{C}$

· **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:**  $1.217 \text{ g/cm}^3$

· **Solubility in / Miscibility with water:**

Fully miscible.

· **Solvent content:**

<b>Organic solvents:</b>	18.3 %
<b>Water:</b>	59.2 %

### 10 Stability and reactivity

· **Reactivity**

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Possibility of hazardous reactions** No dangerous reactions known.

(Contd. on page 5)

## Safety data sheet

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· **Hazardous decomposition products:** Irritant gases/vapours

(Contd. of page 4)

## 11 Toxicological information

· **Information on toxicological effects**· **Acute toxicity:**· **LD/LC50 values relevant for classification:****55-55-0 METOL/ p-Methylaminophenolsulfate / bis(4-hydroxy-N-methylanilinium) sulphate**

Oral LD50 237 mg/kg (rat)

Dermal LD50 &gt;1000 mg/kg (rat)

· **Primary irritant effect:**· **on the skin:** No irritant effect.· **on the eye:** No irritating effect.· **Sensitization:** No sensitizing effects known.

## 12 Ecological information

· **Toxicity**· **Acquatic toxicity:****55-55-0 METOL/ p-Methylaminophenolsulfate / bis(4-hydroxy-N-methylanilinium) sulphate**

EC50 72h: 10 mg/l (alg)

19 mg/l (daphnia magna)

48h: 0.02 mg/l (inv)

LC50 96h: 0.25 mg/l (fat)

· **Persistence and degradability** 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

· **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.

(Contd. on page 6)

GB

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(Contd. of page 5)

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

#### 14 Transport information

· **Land transport ADR/RID (cross-border)**  
 · **ADR/RID class:** -

· **Maritime transport IMDG:**  
 · **IMDG Class:** -  
 · **Marine pollutant:** No

· **Air transport ICAO-TI and IATA-DGR:**  
 · **ICAO/IATA Class:** -

· **UN "Model Regulation":** -  
 · **Special precautions for user** Not applicable.

#### 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.

· **Risk phrases:**

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Safety phrases:**

29 Do not empty into drains.

· **Special labelling of certain preparations:**

Contains METOL/ p-Methylaminophenolsulfate / bis(4-hydroxy-N-methylanilinium) sulphate, Hydroquinone (1,4-dihydroxybenzene). May produce an allergic reaction.

· **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.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

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.

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.

(Contd. on page 7)

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

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(Contd. of page 6)

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.

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.**

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