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

Printing date 05.06.2015 version no: 1 Revision: 05.06.2015

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

. 1.1 Product identifier

. Trade name: <u>Paranol S</u>
. Article number: 102106

. 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 Black and white 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

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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



GHS08

Muta. 2 H341 Suspected of causing genetic defects.



GHS05

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS09

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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



C; Corrosive

R34: Causes burns.



Xn; Harmful

R68: Possible risk of irreversible effects.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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#### . 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







GHS05

GHS0

GHS09

#### . Signal word Danger

#### . Hazard-determining components of labelling:

potassium hydroxide

4-aminophenol

#### . Hazard statements

H314 Causes severe skin burns and eye damage.

H341 Suspected of causing genetic defects.

H411 Toxic 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.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with local regulations.

### . 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.

. Dangerous components:		
EINECS: 204-616-2 Index number: 612-128-00-X	4-aminophenol  Xn R20/22-68; № N R50/53  Muta. Cat. 3  Muta. 2, H341; STOT RE 2, H373; ♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ↑ Acute Tox. 4, H302; Acute Tox. 4, H332	1-5%
EINECS: 215-181-3	potassium hydroxide C R35; Xn R22 Met. Corr.1, H290; Skin Corr. 1A, H314; Acute Tox. 4, H302	2-5%

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. **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: In case of unconsciousness place patient stably in side position for transportation.
- . 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:

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

. 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

Nitrogen oxides (NOx)

Carbon monoxide (CO)

Sulphur dioxide (SO2)

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

- . 5.3 Advice for firefighters
- . Protective equipment: Do not inhale explosion gases or combustion gases.

#### **SECTION 6: Accidental release measures**

#### . 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

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).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Pick up mechanically.

Ensure adequate ventilation.

#### . 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: Protect from heat.
- . 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.

Do not store together with acids.

Store away from oxidising agents.

. Further information about storage conditions:

Keep container tightly sealed.

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: 5-30 °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:

1310-58-3 potassium hydroxide (1-5%)

WEL Short-term value: 2 mg/m<sup>3</sup>

- . Additional information: The lists valid during the making were used as basis.
- . 8.2 Exposure controls
- . Personal protective equipment:
- . General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

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: required at the appearance from fumes/vapours/aerosol. Filter ABEK
- . Protection of hands:



Protective gloves

Impervious gloves

Alkaline resistant 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

. 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.

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Butyl rubber, BR Nitrile rubber, NBR Neoprene gloves

. Penetration time of glove material

Gove materialbreakthroug-timelayer thicknessButyl rubber:>480 min≥0,4mmNitrile rubber:>480 min≥0,38mmNeoprene:>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:



Tightly sealed goggles

. 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: Light brown
Odour: Phenol-like

. **pH-value at 25 °C:** 14

. 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:** 1.386 g/cm<sup>3</sup>

. Solubility in / Miscibility with

water: Fully miscible.

. Solvent content:

Organic solvents: 0.0 % Vater: >55 %

. **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: Stable at environment temperature.
- . 10.3 Possibility of hazardous reactions Reacts with acids, alkalis and oxidising agents.

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- . 10.4 Conditions to avoid No further relevant information available.
- . 10.5 Incompatible materials:

Nitrogen oxides (NOx)

Carbon monoxide (CO)

Sulphur dioxide (SO2)

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

. 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:

#### 123-30-8 4-aminophenol

Oral LD50 375 mg/kg (rat)

#### 1310-58-3 potassium hydroxide

Oral LD50 365 mg/kg (rat)

- . Primary irritant effect:
- . on the skin: Caustic effect on skin and mucous membranes.
- . on the eye: Strong caustic effect.
- . Sensitisation: No sensitising effects known.
- . Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

 $. \ CMR \ effects \ (carcinogenity, mutagenicity \ and \ toxicity \ for \ reproduction)$ 

Muta 2

### **SECTION 12: Ecological information**

- . 12.1 Toxicity
- . Aquatic toxicity:

## 123-30-8 4-aminophenol

EC50 48h: 0.24 mg/l (daphnia magna (Water flea))

LC50 48h: 1.2 mg/l (fish: Oncorhynchus mykiss)

## 1310-58-3 potassium hydroxide

LC50 96h: 80 mg/l (fish: Gambusia affinis)

- . 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.
- . Ecotoxical effects:
- . Remark: Toxic for fish
- . Additional ecological information:
- . General notes:

Do not allow product to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Danger to drinking water if even extremely small quantities leak into the ground.

- . 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**

. **ADR, IMDG, IATA** UN1814

. 14.2 UN proper shipping name

. **ADR** 1814 POTASSIUM HYDROXIDE SOLUTION

. **IMDG** POTASSIUM HYDROXIDE SOLUTION, MARINE

**POLLUTANT** 

. IATA POTASSIUM HYDROXIDE SOLUTION

- . 14.3 Transport hazard class(es)
- . ADR





. Class 8 (C5) Corrosive substances.

. Label

. IMDG





. Class 8 Corrosive substances.

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Label	8
IATA	
Class	8 Corrosive substances.
Label	8
14.4 Packing group ADR, IMDG, IATA	П
14.5 Environmental hazards: Marine pollutant: Special marking (ADR):	Yes Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user Danger code (Kemler): EMS Number: Segregation groups	Warning: Corrosive substances. 80 F-A,S-B Alkalis
14.7 Transport in bulk according to Anno MARPOL73/78 and the IBC Code	ex II of Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2
Tunnel restriction code	E
IMDG Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN1814, POTASSIUM HYDROXIDE SOLUTIO ENVIRONMENTALLY HAZARDOUS, 8, II

## **SECTION 15: Regulatory information**

- . 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- . 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.

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#### . Relevant phrases

- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H332 Harmful if inhaled.
- H341 Suspected of causing genetic defects.
- 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.
- R20/22 Harmful by inhalation and if swallowed.
- R22 Harmful if swallowed.
- R35 Causes severe burns.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 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)

ICAO: International Civil Aviation Organisation

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Met. Corr.1: Corrosive to metals, Hazard Category 1

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Muta. 2: Germ cell mutagenicity, Hazard Category 2

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

. \* Data compared to the previous version altered.

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