

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

**TETENAL**

Printing date 30.01.2020

version no: 6

Revision: 30.01.2020

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****. 1.1 Product identifier**

**. Trade name:** **CPK-2-22 P1-LR**  
**Colour Developer Replenisher**

**. Article number:** 102252 Part 1

**. 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

**. 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**

Acute Tox. 4      H302 Harmful if swallowed.  
Eye Dam. 1      H318 Causes serious eye damage.  
Skin Sens. 1      H317 May cause an allergic skin reaction.  
Aquatic Chronic 2 H411 Toxic 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**

GHS05    GHS07    GHS09

**. Signal word** Danger

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

N-(2-(4-amino-N-ethyl-m-toluidino)ethyl)methanesulphonamide sesquisulphate (CD-3)

**. Hazard statements**

H302 Harmful if swallowed.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.

**. Precautionary statements**

P261      Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264      Wash hands thoroughly after handling.  
P270      Do not eat, drink or smoke when using this product.  
P272      Contaminated work clothing should not be allowed out of the workplace.  
P273      Avoid release to the environment.

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**Colour Developer Replenisher**

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- P280 Wear protective gloves / eye protection.  
 P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
 P330 Rinse mouth.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P391 Collect spillage.  
 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:**

CAS: 25646-71-3                      N-(2-(4-amino-N-ethyl-m-toluidino)ethyl)methanesulphonamide 10-25%  
 EINECS: 247-161-5                      sesquisulphate (CD-3)

Index number: 612-134-00-2      ⚠ Acute Tox. 3, H301; ⚠ Eye Dam. 1, H318; ⚠ Aquatic

Reg.nr.: 01-2120794432-50-0001      Chronic 1, H410; ⚠ Skin Sens. 1, H317

. **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:** Immediately remove any clothing/shoes soiled by the product.

**. After inhalation:**

Supply fresh air and to be sure call for a doctor.

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. If symptoms persist, consult a doctor.

**. After swallowing:**

Do not induce vomiting; call for medical help immediately.

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.

### SECTION 5: Firefighting measures

**. 5.1 Extinguishing media**

**. Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

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

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

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**Trade name: CPK-2-22 P1-LR**  
**Colour Developer Replenisher**

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- . **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).  
 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.

### SECTION 7: Handling and storage

- . **7.1 Precautions for safe handling**  
 Ensure good ventilation/exhaustion at the workplace.  
 Prevent formation of aerosols.
- . **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:** No special requirements.
- . **Information about storage in one common storage facility:**  
 Store away from foodstuffs.  
 Do not store together with alkalis (caustic solutions).  
 Store away from oxidising agents.
- . **Further information about storage conditions:**  
 Keep container tightly sealed.  
 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:**  


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**25322-68-3 Polyethylene glycol (10-<25%)**  
 WEEL (USA) Long-term value: 10 mg/m<sup>3</sup>  
 (H); MW>200
- . **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.

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### Trade name: CPK-2-22 P1-LR Colour Developer Replenisher

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- 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:** Ensure adequate ventilation
- . **Protection of hands:**



Protective gloves

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

. **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	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:**

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:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Light red
<b>Odour:</b>	Pungent to sulfur dioxide

. **pH-value at 20 °C:** ~1.4. **Change in condition**

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

. **Flash point:** Not applicable.. **Auto-ignition temperature:** Product is not selfigniting.. **Explosive properties:** Product does not present an explosion hazard.

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. Vapour pressure at 20 °C:	23 hPa
. Density at 20 °C:	~1.1 g/cm <sup>3</sup>
. Solubility in / Miscibility with water:	Fully miscible.
. Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
. Solvent content:	
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: No decomposition if used according to specifications.
- . 10.3 Possibility of hazardous reactions Reacts with acids, alkalis and oxidising agents.
- . 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

### SECTION 11: Toxicological information

- . 11.1 Information on toxicological effects
- . Acute toxicity  
Harmful if swallowed.
- . LD/LC50 values relevant for classification:  


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**25646-71-3 N-(2-(4-amino-N-ethyl-m-toluidino)ethyl)methanesulphonamide sesquisulphate (CD-3)**  
 Oral LD50 >75 mg/kg (rat)  
 Dermal LD50 >2,000 mg/kg (rat)
- . Primary irritant effect:
- . Skin corrosion/irritation Based on available data, the classification criteria are not met.
- . Serious eye damage/irritation  
Causes serious eye damage.
- . Respiratory or skin sensitisation  
May cause an allergic skin reaction.
- . 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.

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### SECTION 12: Ecological information

#### . 12.1 Toxicity

##### . Aquatic toxicity:

**25646-71-3 N-(2-(4-amino-N-ethyl-m-toluidino)ethyl)methanesulphonamide sesquisulphate (CD-3)**

LC50 96 mg/l (fish: Pimephales promelas)

. 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:** Toxic for fish

##### . Additional ecological information:

##### . General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, 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

#### . 14.1 UN-Number

. **ADR, IMDG, IATA**

UN3082

#### . 14.2 UN proper shipping name

. **ADR**

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-Phenylenediamine derivate CD-3)

. **IMDG**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-Phenylenediamine derivate CD-3), MARINE POLLUTANT

. **IATA**

Environmentally hazardous substance, liquid, n.o.s. (p-Phenylenediamine derivate CD-3)

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<b>. 14.3 Transport hazard class(es)</b>	
<b>. ADR</b>	
<b>. Class</b>	9 (M6) Miscellaneous dangerous substances and articles.
<b>. Label</b>	9
<hr/>	
<b>. IMDG, IATA</b>	
<b>. Class</b>	9 Miscellaneous dangerous substances and articles.
<b>. Label</b>	9
<b>. 14.4 Packing group</b>	
<b>. ADR, IMDG, IATA</b>	III
<b>. 14.5 Environmental hazards:</b>	Product contains environmentally hazardous substances: p-Phenylenediamine derivate solution
<b>. Marine pollutant:</b>	Yes
<b>. Special marking (ADR):</b>	Symbol (fish and tree)
<b>. 14.6 Special precautions for user</b>	
<b>. Hazard identification number (Kemler code):</b>	Warning: Miscellaneous dangerous substances and articles.
<b>. EMS Number:</b>	90
<b>. Stowage Category</b>	F-A,S-B
	A
<b>. 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	
	Not applicable.
<b>. Transport/Additional information:</b>	
<hr/>	
<b>. ADR</b>	
<b>. Limited quantities (LQ)</b>	5L
<b>. Excepted quantities (EQ)</b>	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
<b>. Transport category</b>	3
<b>. Tunnel restriction code</b>	E
<hr/>	
<b>. IMDG</b>	
<b>. Limited quantities (LQ)</b>	5L
<b>. Excepted quantities (EQ)</b>	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
<b>. UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (P- PHENYLENEDIAMINE DERIVATE CD-3), 9, III

### SECTION 15: Regulatory information

- . 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- . Directive 2012/18/EU**
- . Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- . Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- . REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- . 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### 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**

- H301 Toxic if swallowed.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- 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)
- 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
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 3: Acute toxicity - oral – Category 3
- Acute Tox. 4: Acute toxicity - oral – Category 4
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Skin Sens. 1: Skin sensitisation – Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**. Trade name: **CPK-2-22 P1-LR Part 2 Colour Developer Replenisher**

. Article number: 102252 Part 2

. 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 Bleachfix preparation for photographic use

**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**

Met. Corr.1 H290 May be corrosive to metals.

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

Eye Dam. 1 H318 Causes serious eye damage.

Repr. 2 H361 Suspected of damaging fertility or the unborn child. Route of exposure: Oral.

**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

GHS08

. Signal word Danger

**Hazard-determining components of labelling:**

potassium hydroxide

Diethylenetriaminepentaacetic acid, pentasodium salt (DTPA-Na5)

**Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H361 Suspected of damaging fertility or the unborn child. Route of exposure: Oral.

**Precautionary statements**

P202 Do not handle until all safety precautions have been read and understood.

P234 Keep only in original container.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves / eye protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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

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### Trade name: CPK-2-22 P1-LR Part 2 Colour Developer Replenisher

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- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- P390 Absorb spillage to prevent material damage.
- P405 Store locked up.
- P406 Store in corrosive resistant container with a resistant inner liner.
- 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:**

CAS: 584-08-7	potassium carbonate	10-<25%
EINECS: 209-529-3	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
Reg.nr.: 01-2119532646-36		
CAS: 133986-51-3	2,2'-(Hydroxylimino)bisethanesulphonicacid, disodium salt (DSEHA)	5-10%
ELINCS: 407-370-6	⚠ Eye Irrit. 2, H319	
Reg.nr.: 01-0000015682-69		
CAS: 1310-58-3	potassium hydroxide	1-5%
EINECS: 215-181-3	⚠ Met. Corr.1, H290; Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302	
Index number: 019-002-00-8		
Reg.nr.: 01-2119487136-33		
CAS: 140-01-2	Diethylenetriaminepentaacetic acid, pentasodium salt (DTPA-Na5)	1-5%
EINECS: 205-391-3	⚠ Repr. 2, H361; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
Reg.nr.: 01-2119474445-33		

. **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:** 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:** 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:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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**Trade name: CPK-2-22 P1-LR Part 2 Colour Developer Replenisher**

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- . **5.2 Special hazards arising from the substance or mixture**  
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- . **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**  
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.

### SECTION 7: Handling and storage

- . **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- . **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:** No special requirements.
- . **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 (3-5%)**  
WEL (Great Britain) Short-term value: 2 mg/m<sup>3</sup>

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REL (USA) Long-term value: C2 mg/m<sup>3</sup>TLV (USA) Short-term value: C 2 mg/m<sup>3</sup>**. DNELs****1310-58-3 potassium hydroxide**Inhalative Long-term - local - effects 1 mg/m<sup>3</sup> (Worker (Arbeiter))Long-term - systemic effects 1 mg/m<sup>3</sup> (general population)**. 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:**

Ensure adequate ventilation

required at the appearance from fumes/vapours/aerosol. Filter ABEK

**. Protection of hands:**

Protective gloves

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

**. 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:**

Tightly sealed goggles

**. Body protection: Protective work clothing**

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### SECTION 9: Physical and chemical properties

#### . 9.1 Information on basic physical and chemical properties

##### . General Information

##### . Appearance:

Form:	Fluid
Colour:	Light red
Odour:	Odourless

. pH-value at 20 °C: >14

##### . Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

. Flash point: Not applicable.

. Auto-ignition temperature: Product is not selfigniting.

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

. Vapour pressure at 20 °C: 23 hPa

. Density at 20 °C: ~1.3 g/cm<sup>3</sup>

. Solubility in / Miscibility with water: Fully miscible.

##### . Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

##### . Solvent content:

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: No decomposition if used according to specifications.

. 10.3 Possibility of hazardous reactions: Reacts with acids, alkalis and oxidising agents.

. 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

### 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 >2000 mg/kg (rat)

##### 133986-51-3 2,2'-(Hydroxylimino)bisethanesulphonic acid, disodium salt (DSEHA)

Oral LD50 >2000 mg/kg (rat)

##### 1310-58-3 potassium hydroxide

Oral LD50 333 mg/kg (rat)

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### 140-01-2 Diethylenetriaminepentaacetic acid, pentasodium salt (DTPA-Na5)

Oral LD50 &gt;2000 mg/kg (rat)

- . **Primary irritant effect:**
- . **Skin corrosion/irritation**  
Causes severe skin burns and eye damage.
- . **Serious eye damage/irritation**  
Causes serious eye damage.
- . **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**  
Suspected of damaging fertility or the unborn child. Route of exposure: Oral.
- . **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:

### 140-01-2 Diethylenetriaminepentaacetic acid, pentasodium salt (DTPA-Na5)

EC50 48h: &gt;500 mg/l (daphnia magna (Water flea))

48h: &gt;500 mg/l (Invertebrates)

LC50 96h: 1115 mg/l (fish)

96h: &gt;1000 mg/l (Lepomis macrochirus (Sonnenbarsch))

- . **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:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Harmful to aquatic organisms

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 1 (German Regulation) (Self-assessment): slightly hazardous for water

#### . **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

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- . **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

<b>. 14.1 UN-Number</b>	UN1814
<b>. ADR, IMDG, IATA</b>	
<b>. 14.2 UN proper shipping name</b>	
<b>. ADR</b>	1814 POTASSIUM HYDROXIDE SOLUTION
<b>. IMDG</b>	POTASSIUM HYDROXIDE SOLUTION
<b>. IATA</b>	Potassium hydroxide, solution
<b>. 14.3 Transport hazard class(es)</b>	
<b>. ADR</b>	
<b>. Class</b>	8 (C5) Corrosive substances.
<b>. Label</b>	8
<b>. IMDG, IATA</b>	
<b>. Class</b>	8 Corrosive substances.
<b>. Label</b>	8
<b>. 14.4 Packing group</b>	
<b>. ADR, IMDG, IATA</b>	III
<b>. 14.5 Environmental hazards:</b>	
<b>. Marine pollutant:</b>	No
<b>. 14.6 Special precautions for user</b>	Warning: Corrosive substances.
<b>. Hazard identification number (Kemler code):</b>	80
<b>. EMS Number:</b>	F-A,S-B
<b>. Segregation groups</b>	Alkalis
<b>. Stowage Category</b>	A
<b>. Segregation Code</b>	SG35 Stow "separated from" SGG1-acids
<b>. 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
<b>. Transport/Additional information:</b>	
<b>. ADR</b>	
<b>. Limited quantities (LQ)</b>	5L
<b>. Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>. Transport category</b>	3
<b>. Tunnel restriction code</b>	E
<b>. IMDG</b>	
<b>. Limited quantities (LQ)</b>	5L
<b>. Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>. UN "Model Regulation":</b>	UN1814, POTASSIUM HYDROXIDE SOLUTION, 8, III

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### SECTION 15: Regulatory information

- . **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- . **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- . **National regulations:**
- . **Information about limitation of use:**  
Employment restrictions concerning pregnant and lactating women must be observed.
- . **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**  
H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H361 Suspected of damaging fertility or the unborn child. Route of exposure: Oral.
- . **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)  
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)  
DNEL: Derived No-Effect Level (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Met. Corr. 1: Corrosive to metals – Category 1  
Acute Tox. 4: Acute toxicity - oral – Category 4  
Skin Corr. 1A: Skin corrosion/irritation – Category 1A  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
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  
Repr. 2: Reproductive toxicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- . **\* Data compared to the previous version altered.**

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