TETENA

version no: 6 Printing date 12.02.2021 Revision: 12.02.2021

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

. 1.1 Product identifier

. Trade name: C-41 CD-R SP 45

Colour Developer Replenisher

. Article number: 102570

. Index number:

None of the ingredients is listed.

. UFI: A0X3-D0MQ-7006-TP5P

. 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

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

P273 Avoid release to the environment.

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

. Additional information:

Contains (4-ammonio-m-tolyl)ethyl(2-hydroxyethyl)ammonium sulphate (CD-4), bis(hydroxylammonium) sulfate. 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.

. Dangerous components:

CAS: 584-08-7 potassium carbonate EINECS: 209-529-3

Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335

Reg.nr.: 01-2119532646-36

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1-5%

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CAS: 25646-77-9 (4-ammonio-m-tolyl)ethyl(2-hydroxyethyl)ammonium sulphate (CD-4) <1%

Index number: 612-133-00-7 H400; Aquatic Chronic 1, H410; (1) Skin Sens. 1, H317

CAS: 140-01-2 Diethylenetriaminepentaacetic acid, pentasodium salt (DTPA-Na5) <1%

Index number: 607-736-00-7 Reg.nr.: 01-2119474445-33

CAS: 10039-54-0 bis(hydroxylammonium) sulfate

<1%

Reg.nr.: 01-2119485971-25 H315; Eye Irrit. 2, H319; 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
- . After inhalation: Supply fresh air; consult doctor in case of complaints.
- . After skin contact: Immediately rinse with water.
- . After eve contact: Rinse opened eye for several (15 min) under running water.
- . **After swallowing:** Rinse out mouth and then drink plenty of water.
- . 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)

. 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

Wear protective clothing.

. 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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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.
- . 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: 5-30°C

Protect from exposure to the light.

. 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- . 8.1 Control parameters
- . Additional information about design of technical facilities: No further data; see item 7.
- . 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.
- . 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

. 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

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Gove material breakthroug-time layer thickness
Butyl rubber: ≥480 min ≥0,4mm
Nitrile rubber: ≥480 min ≥0,38mm
Neoprene: ≥240 min ≥0,65mm

Eve protection: Goggles recommended during refilling

. **Body protection:** Protective work clothing

- EN

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SECTION 9: Physical and chen	nical properties	
. 9.1 Information on basic physical and chemical properties . General Information		
. Appearance:		
Form:	Fluid	
Colour:	Light yellow	
. Odour:	Odourless	
. pH-value at 20 °C:	~10	
. Change in condition Melting point/freezing point: Initial boiling point and boiling rang	Undetermined. ge: > 100 °C	
. Flash point:	Not applicable.	
. Auto-ignition temperature:	Product is not selfigniting.	
. Explosive properties:	Product does not present an explosion hazard.	
. Vapour pressure:	Not determined.	
. Density at 20 °C:	~1 g/cm³	
. Solubility in / Miscibility with water:	Fully miscible.	
. Solvent content: Water:	90-98 %	
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

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 \geq 2,000 mg/kg (rat)

25646-77-9 (4-ammonio-m-tolyl)ethyl(2-hydroxyethyl)ammonium sulphate (CD-4)

Dermal LD50 \geq 2,000 mg/kg (rat)

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

Oral LD50 \geq 2,000 mg/kg (rat)

10039-54-0 bis(hydroxylammonium) sulfate

Oral LD50 642-842 mg/kg (rat)

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Dermal LD50 1,500-2,000 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.
- . Additional toxicological information:
- . CMR effects (carcinogenity, 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:

25646-77-9 (4-ammonio-m-tolyl)ethyl(2-hydroxyethyl)ammonium sulphate (CD-4)

LC50 96 mg/l (daphnia magna (Water flea))

1-96 mg/l (fish: Pimephales promelas)

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

EC50 48 mg/l (daphnia magna (Water flea))

48 mg/l (Invertebrates)

LC50 96 mg/l (fish)

96 mg/l (Lepomis macrochirus (Sonnenbarsch))

10039-54-0 bis(hydroxylammonium) sulfate

EC50 48 mg/l (daphnia magna (Water flea))

LC50 96 mg/l (fathead minnow (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.
- . Ecotoxical effects:
- . Remark: Harmful to fish
- . Additional ecological information:
- . General notes:

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

Harmful to aquatic organisms

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Danger to drinking water if even 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

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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		
. 14.1 UN-Number . ADR, ADN, IMDG, IATA	Void	
. 14.2 UN proper shipping name . ADR . ADN, IMDG, IATA	Void 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 Ann Marpol and the IBC Code	nex II of Not applicable.	
. UN "Model Regulation":	Void	

- . 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- . Directive 2012/18/EU
- . REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 65
- . 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.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

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.

. 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)

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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)

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. 3: Acute toxicity - oral - Category 3

Acute Tox. 4: Acute toxicity - inhalation - Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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.