

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Trade name: TD Red Action
Date of issue: 19.09.2014

KENTZLER
KASCHNER
DENTAL

01. Identification of the substance / preparation and company:

Trade name
TD Red Action

Article No. (REF)
7893 – 1 L
7894 – 5 L

Relevant identified uses of the substance or mixture and uses advised against

Sector of Use:

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites.
SU10: Formulation (mixing) of preparations and / or re-packaging (excluding alloys).

Product category:

PC14: Metal surface treatment products, including galvanic and electroplating products.
PC35: Washing and cleaning products (including solvent based products).

Process category:

PROC2: Use in closed, continuous process with occasional controlled exposure.
PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and / or significant contact).

Environmental release category:

ERC2: Formulation of preparations.
ERC4: Industrial use of processing aids in processes and products, not becoming part of articles.
ERC5: Industrial use resulting in inclusion into or onto a matrix.
ERC8a: Wide dispersive indoor use of processing aids in open systems.

Application of the substance / the preparation

Delimiting agent, Cleaning material / Detergent.

Producer

Kentzler-Kaschner Dental GmbH

Street

Mühlgraben 36

Place

D – 73479 Ellwangen

Contact for technical information

Phone +49/7961/90 73 0

Telephone / Telefax / E-Mail

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Emergency contact information

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02. Hazardous identification

Classification of the substance or mixture

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



C – Corrosive

R-Phrases

R 34 Causes burns.

S-Phrases

S 22 Do not breathe dust.
S 36 / S 37 Wear suitable protective clothing and gloves.
S 27 / S 28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 1 Keep locked up.
S 35 This material and its container must be disposed of in a safe way.

Classification according to Directive 1272/2008EC



Signal word: Danger

GHS05 – Corrosivity

Skin Corr. 1B

Hazard-determining components of labelling

Phosphoric acid.

H-Phrases

H 314 Causes severe skin burns and eye damage.

P-Phrases

P 260 Do not breathe dust/fume/gas/mist/vapours/spray.
P 280 Wear protective gloves/protective clothing/eye protection/face protection.
P 303 / P 361 / P 353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P 305 / P 351 / P 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P 321 Specific treatment (see on this label).
P 405 Store locked up.
P 501 Dispose of contents/container in accordance with local / regional / national / international regulations.

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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 last valid version.

Classification system

The classification is equivalent to the current EU-lists, and is extended by company specifications and literature data.

Results of PBT and vPvB assessment

PBT: Not applicable.





vPvB: Not applicable.

03. Composition/information on ingredients

Chemical Characterisation

-

Hazardous components

Description	CAS-No.	EINECS-No.	Reg.No.	Content	Classification
Phosphoric acid	7664-38-2	231-633-2	01-2119485924-24	25 – 35 %	 C; R 34  Skin Corr. 1B; H 314
Citric acid monohydrate	5949-29-1	-	01-2119457026-42-0000	3 – 6 %	 Xi; R 36  Eye Irrit. 2; H 319

Regulation No. 648/2004/EC on detergents / Labelling for contents

Dye under 0.1 %.

Fragrance under 0.1 %.

Additional Information

For the wording of the listed risk phrases refer to section 15.

04. First aid measures

General Information

Immediately remove any clothing soiled by the product.

After Inhalation

Supply fresh air, consult a doctor in case of symptoms.

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.

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After swallowing

Plentifully water after-drink and admission of fresh air. Consult physician with continuous complaints. Mouth rinse out and plentifully after water drink. NO vomiting cause, immediately physician tighten. Possibly give water with medicine alcohols to drinking. With spontaneous and unconsciousness to transport in stable side situation and overstretched head pay attention.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

05. Fire fighting measures

Suitable extinguishing media

CO₂, powder or water spray. Fight larger fires with water spray.

For safety reasons unsuitable extinguishing media

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Special hazards arising from the substance or preparation itself, combustion products or resulting gases

In case of fire Sulfur trioxide (SO₃) can be released.

Special protective equipment for firefighters

Wear self-contained breathing apparatus.

06. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions

Do not allow to enter seweres, pits and cellars, groundwater, drains and surface water. Do not flush into the ground / soil.

Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, or). Dispose off contaminated material as waste according to item 13.

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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07. Handling and storage

Advice on safe handling

Store in tightly closed containers in a cool, dry place.

Advice on protection against fire and explosion

No special measures required.

Requirements for storage rooms and vessels

Provide acid-resistant floor.

Information about storage in one common storage facility

Not required.

Further information about storage conditions

Keep container tightly sealed.

BEFORE FROST CONTACTORS!

Under 5 °C do not store.

Storage class

-

Specific end use(s)

No further relevant information available.

08. 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

Description	CAS-No.	Value	Type
Phosphoric acid	7664-38-2	Long-term value: 2 E mg/m ³ 2 (I); DFG, EU, AGS, Y	AGW

Additional information

The lists valid during the making were used as basis.

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. Avoid contact with the eyes and skin.

Respiratory protection

If the respiratory system is endangered by attractive and corrosive gases, steams or aero brine, a suitable respiratory protection is to be used. With sufficient oxygen content of the breathing air can be amounted to filter devices. Otherwise independent respirators (isolation devices) are to be used by the ambient air. With aero brines or types of dust filter devices with particle filter (particle filter class P2) must be carried. Gases and steams require filter - identification letter B, identification colour code grey. Combination filters are to be used, if aero brine, gases and steams are at the same time present. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self contained respiratory protective device.

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Hand protection

Protective 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 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.

Penetration time of glove material

The exact break through 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

According to the possible endangerment apron is additional to carry boots or full protection suit from suitable materials (e.g. rubber). Aprons must be sufficiently long. With boots it is to be made certain that no corrosive liquids from above can arrive into the boots. Also it is to be considered that buried caustic solutions can increase the slip hazard. Moistened clothes immediately files and only after thorough cleaning again use.

09. Physical and chemical properties

Appearance: Liquid
Colour: Red
Odour: Perfumed

Safety relevant data

pH-value:	< 1	at 20 °C
Melting point:	> 0 °C	
Boiling point:	100 °C	
Flash point:	Not applicable.	
Flammability:	Not applicable.	
Decomposition temperature:	Not determined.	
Self-Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Lower explosion limit:	Not determined.	
Upper explosion limit:	Not determined.	
Vapour pressure:	23 hPa	at 20 °C
Density:	1.25 g/cm ³	at 20 °C
Relative density:	Not determined.	
Vapour density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility with water:	Completely miscible.	
Partition coefficient (n-octanol/water):	Not determined.	
Dynamic Viscosity:	Not determined.	
Kinematic Viscosity:	Not determined.	

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Further information

No further information.

10. Stability and reactivity

Conditions to avoid

In the case of intended use no decomposition admits.

Materials to avoid

No further relevant information available.

Hazardous decomposition products

No dangerous decomposition products known.

Possibility of hazardous reactions

No dangerous reactions admits.

11. Toxicological information

Acute toxicity

LD / LC50 values relevant for classification

Description	CAS-No.	Classification
Phosphoric acid	7664-38-2	LD50 : 1530 mg/kg (rat) 2740 mg/kg (rabbit)

Irritation and corrosive effects

On the Skin: Caustic effect on skin and mucous membranes.

On the Eye: Strong caustic effect.

Sensitization

No sensitizing 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.

12. Ecological information

Aquatic toxicity

Description	CAS-No.	Classification
Phosphoric acid	7664-38-2	LC50 Fish toxicity: 3 – 3.5 mg/l/96 H (Fish)

Mobility in soil

No further relevant information available.

Persistence and Degradability

No data available.

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Bioaccumulative potential

No Data available.

Behaviour in environmental systems

No data available.

Water Hazard Class

1 – slightly hazardous for water (Self assessment).

General notes

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Prevent penetration into soil, drains and surface waters. Do not allow to enter waters without pre-treatment.

Hazardous to drinking water.

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

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects

No further relevant information available.

13. Disposal considerations

Product

Recommendation

Dispose off according to local regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

06 00 00 WASTES FROM INORGANIC CHEMICAL PROCESSES.

06 01 00 Wastes from manufacture, formulation, supply and use (MFSU) of acids.

06 01 99 Wastes not otherwise specified.

Uncleaned Packaging

Recommendation

Dispose off according to official regulation.

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14. Transport information

Land transport

ADR

UN proper shipping name:

3264 CORROSIVE LIQUID, ACIDIC, INORGANIC,
N.O.S. (PHOSPHORIC ACID, SOLUTION).

Transport Hazard Class:

8 Corrosive substances

Label:

8

Packing group:

III

Environmental hazards:

Not applicable.

Special precautions for user:

Warning: Corrosive substances.

Danger code (Kemler):

80

Limited quantities (LQ):

5 L

Transport category:

3

Tunnel restriction code:

E

UN „Model Regulation“:

3264 CORROSIVE LIQUID, ACIDIC, INORGANIC,
N.O.S. (PHOSPHORIC ACID, SOLUTION), 8, III



Sea transport

IMDG

UN proper shipping name:

CORROSIVE LIQUID, ACIDIC, INORGANIC,
N.O.S. (PHOSPHORIC ACID, SOLUTION)

Transport Hazard Class:

8 Corrosive substances

Label:

8

Packing group:

III

Environmental hazards:

Not applicable.

Special precautions for user:

Warning: Corrosive substances.

Danger code (Kemler):

80

EMS-No.:

F-A, S-B

Segregation groups:

Acids

**Transport in bulk according to Annex II of
MARPOL 73/78 and the IBC Code:**

Not applicable.

Limited Quantities (LQ):

5 L

Transport category:

3

Tunnel restriction code:

E

UN „Model Regulation“:

3264 CORROSIVE LIQUID, ACIDIC,
INORGANIC, N.O.S. (PHOSPHORIC ACID,
SOLUTION), 8, III



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Air transport

IATA

UN proper shipping name:

CORROSIVE LIQUID, ACIDIC, INORGANIC,
N.O.S. (PHOSPHORIC ACID, SOLUTION)

Transport Hazard Class:

8 Corrosive substances

Label:

8

Packing group:

III

Environmental hazards:

Not applicable.

Special precautions for user:

Warning: Corrosive substances.

Danger code (Kemler):

80

Limited Quantities (LQ):

5 L

Transport category:

3

Tunnel restriction code:

E

UN „Model Regulation“:

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INORGANIC, N.O.S. (PHOSPHORIC ACID,
SOLUTION), 8, III



15. Regulatory information

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



C – Corrosive

R-Phrases

R 34 Causes burns.

S-Phrases

S 22 Do not breathe dust.

S 36 / S 37 Wear suitable protective clothing and gloves.

S 27 / S 28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 1 Keep locked up.

S 35 This material and its container must be disposed of in a safe way.

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Signal word: Danger

GHS05 – Corrosivity

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P 321 Specific treatment (see on this label).
P 405 Store locked up.
P 501 Dispose of contents/container in accordance with local / regional / national / international regulations.

National Regulations

Water Hazard Class

1 – slightly hazardous for water (Self-assessment)

Chemical Safety assessment

A Chemical Safety Assessment has not been performed.

16. Further information

Data sheet issuing staff

Product Development / Quality Management

Source of most essential data

Safety data sheet of the manufacturer.

GENERAL HINTS

The information contained herein is based on the present state of our knowledge and on our experiences with the product. The material safety data sheet is strictly intended for risk minimizing when handling the product. The information characterizes it exclusively with regard to safety aspects and does not represent a guarantee of the properties of the product within the meaning of our general terms and conditions. The information does not dispense the user from his duties of care with respect to the observance of present laws, regulations, and terms.
