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 Date of last alteration: 2011-06-09 - Version: 2.0 English  
 Art. -No., product name: **02554 / 02557 smartclean Rinsing Solution**



**1 Identification of the substance or preparation and of the company**

- 1.1 Identification of the substance/the preparation:  
 Commercial Product Name: smartclean
- 1.2 Use of the substance/the preparation: Professional.  
 Rinsing solution for use in dentistry.
- 1.3 Company / undertaking identification:  
 Manufacturer / distributor: DETAX GmbH & Co. KG  
 Street / POB-No.: Carl-Zeiss-Str. 4  
 State / postal code / city: D-76275 Ettlingen  
 Telephone: +49 7243/510-0 Telefax: +49 7243/510-100  
 E-Mail: post@detax.de
- 1.4 Emergency number: +49 7243/510-0  
 This number is only obtainable during office hours (Monday - Thursday 8.00 a.m. - 5.00 p.m., Friday 8.00 a.m. - 4.00 p.m.).



**2 Hazards identification**

- 2.1 Classification: The product is not a hazardous preparation according to the guideline 1999/45/EC.
- 2.2 Critical hazards to man and environment: If used appropriately, no special hazards known.  
 Avoid release of the product to the environment.

**3 Composition / information on ingredients**

- 3.1 Chemical characterisation (preparation):  
 Description: Aqueous solution containing auxiliary matters, antibacterial substances and extracts of sage.

3.2 Hazardous ingredients:

Ingredient	CAS-No.	EC-No.	Index-No.	Concentration	Hazard symbols	R-Phrases
Chlorhexidin	55-56-1	200-238-7	-	< 0,2%	 	41-51/53

- 3.3 Further information: The identification letters and the R-Phrases are described in section 16.

**4 First aid measures**

- 4.1 General information: In case of accident or if you feel unwell, seek medical advice (if possible, show the label or this MSDS).
- 4.2 After inhalation: Provide for fresh air. If a sudden feeling of nausea occurs, seek medical advice.
- 4.3 After contact with the skin: Wash immediately with plenty of water and soap. In case of visible skin reaction or persisting irritation, seek medical advice.
- 4.4 After contact with the eyes: Rinse the open eyes immediately with plenty of water for at least 15 minutes, seek medical advice.
- 4.5 After swallowing: Rinse mouth well with water and drink plenty of water in small portions. After swallowing of larger amounts (> 50 ml) seek medical advice.
- 4.6 Autoprotection of the first assistant: Take care of a sufficient autoprotection (hand protection, foil mask "Life key").

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**5 Fire fighting measures**

- 5.1 Suitable extinguishing media: The product itself is not combustible. Take fire-fighting measures according to environmental fire.
- 5.2 Extinguishing media which must not be used for safety reasons: Depending on the combustible materials in the surrounding area.
- 5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: Do not breathe combustion gases.
- 5.4 Special protective equipment for fire fighting: Use respiratory protection independent of recirculated air. Extinguishing media depend on environmental fire.
- 5.5 Further information: Collect contaminated extinguishing water separately. Prevent it running into in-shore waters and ground water.

**6 Accidental release measures**

- 6.1 Personal precautions: The usual precautions in handling with cleansing agents are to be observed. Avoid direct contact with eyes and skin.
- 6.2 Environmental precautions: Keep away from sewage treatment plants, in-shore waters and earth. Observe local byelaws.
- 6.3 Methods for cleaning up: Absorb with liquid binding material (sand, diatomaceous earth) and collect it in a suitable container, labelled according to regulations (for disposal see section 13).

**7 Handling and storage**

- 7.1 Handling:
  - Precautions for safe handling: The usual precautions in handling with cleansing agents are to be observed. Avoid unchecked sprinkling and spraying. Avoid direct contact with eyes.
  - Precautions against fire and explosion: The usual precautions in preventive fire protection are to be observed.
- 7.2 Storage:
  - Conditions for storage rooms and vessels: No special storage conditions.
  - Advice for storage of incompatible materials: Incompatible materials are unknown.
  - Further information for storage: Keep at temperature not exceeding 25 °C / 77 °F.
- 7.3 Definite use: Mouth rinsing solution for use by trained specialist staff.

**8 Exposure controls and personal protection**

- 8.1 Exposition limit values: No associated substances with specific working place control parameters.
- 8.2 Limitation and control of the exposition
  - 8.2.1 Limitation and control of the exposition at the place of work
    - General protection and hygiene measures: The usual precautions in handling with cleansing agents are to be observed. Avoid unchecked sprinkling and spraying. Avoid direct contact with eyes.
    - Personal protection equipment:
      - Respiratory protection: Not required, if handled appropriately.
      - Hand protection: Protective gloves are recommended, e.g. such as gloves of nitrile rubber.
      - Eye protection: It is recommended to wear protective glasses.
      - Body protection: Not required, if handled appropriately.

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8.2.2 Limitation and control of the environmental exposition: Don't let the material penetrate into sewage treatment plants, in-shore waters and earth.

**9 Physical and chemical properties**

9.1 Appearance

Form: liquid  
 Colour: red-orange  
 Odour: like sage

9.2 Important information on health and environmental protection and on safety: Method (67/548/EEC)

pH-value .....	= approx. 6.0 at 20 °C / 68 °F	
Boiling point .....	= > 100 °C / 212 °F	DIN 51356
Flash point .....	= n.a.	DIN 51755
Ignition temperature .....	= n.a.	DIN 51794
Vapour pressure .....	= < 1 hPa at 20 °C / 68 °F	
Density .....	= approx. 1.1 g/cm <sup>3</sup> at 20 °C / 68 °F	DIN 51757
Solubility in water .....	= miscible	
Distribution coefficient octanol / water:	not tested	
Viscosity, dynamic .....	= < 10 mPa.s at 23 °C / 73 °F	Brookfield
Explosion limits .....	= n.a.	

9.3 Further information:

Thermal decomposition .....: not tested

**10 Stability and reactivity**

10.1 Conditions to avoid: No special conditions are known.  
 10.2 Materials to avoid: No incompatible materials are known.  
 10.3 Hazardous decomposition products: No decomposition, if stored and handled appropriately.

**11 Toxicological information**

11.0 General information: According to our present experience and the informations we have to hand, the product shows no health risk if handled and applied appropriately.

11.1 Toxicological tests

Acute toxicity  
 Acute oral toxicity: For the product no toxicological data are available.

**12 Ecological information**

12.1 Ecological toxicity:  
 Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition): Do not introduce into purification plants.  
 12.2 Mobility: No data available.  
 12.3 Persistence and degradability  
 Biodegradation / further information: No data available.  
 12.4 Potential of biological accumulation: No data available.  
 12.5 Other harmful effects: Harmful to aquatic organisms. A hazard for drinking water sources is possible when larger quantities get into the ground-water.  
 12.6 Further ecotoxicological effects: Avoid escape into water, drainage, sewer, or the ground.

**13 Disposal considerations**

13.1 Waste management (product): Recommendation: Handing over to an authorised waste

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management company.  
 Observe the local byelaws.  
 European Waste Catalogue Ref.No.: Please ask your local waste disposal company about the correct Ref.No. according to the European Waste Catalogue.

13.2 Contaminated packaging: Waste management under the local/national byelaws.

**14 Transportation information**

14.1 Land transportation ADR/RDI and GGVS/GGVE:  
 GGVS/GGVE-class..... : Non-hazardous material  
 ADR/RID-class..... : Non-hazardous material  
 Transportation emergency card number:  
 Warning board - Hazard No.:  
 Nomenclature..... :  
 Further information..... :  
 Limited Quantities ..... :

14.2 Inland navigation ADN/ADNR:  
 Further information: Non-hazardous material

14.3 Transportation by sea IMDG/GGVsea:  
 IMDG/GGVsea-class .. : Non-hazardous material  
 EmS-No..... :  
 Marine pollutant ..... :  
 Proper shipping name.. :  
 Technical name..... :  
 LTD. QTY..... :

14.4 Air transportation ICAO-TI and IATA-DGR transportation by air:  
 ICAO/IATA-class..... : Non-hazardous material  
 Proper shipping name.. :  
 Technical name ..... :

**15 Regulatory information**

15.1 National regulations (Germany):  
 Observe local/national byelaws.

Information for labelling is given in section 2 of this document.

Classification of possible adverse effects in the aquatic environment (WGK):  
 Class 2 (adverse effects in the aquatic environment).

**16 Other information**

16.1 Wording of the R-phrases under section 3:  
 R-Phrases and identification letters

R-Phrases:  
 R 41 Risk of serious damage to eyes  
 R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Identification letters:  
 N Environmentally hazardous  
 Xi Irritating

16.2 Further information  
 Explanation of the abbreviations:  
 n.a. = not applicable n.s. = not subject to

16.3 Literature register:  
 Richtlinie 1999/45/EG für die Einstufung, Verpackung und Kennzeichnung gefährlicher Zubereitungen

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**DETAX**Art. -No., product name: **02554 / 02557 smartclean Rinsing Solution**

Richtlinie 67/548/EWG für die Einstufung, Verpackung und Kennzeichnung gefährlicher Stoffe, Anhang I  
Sicherheitstechnische Kenndaten chemischer Stoffe, ecomed-Verlag, Loseblattsammlung mit Ergänzungslieferungen

Handbuch der Abfallentsorgung, ecomed-Verlag, Loseblattsammlung mit Ergänzungslieferungen

Allgemeine Verwaltungsvorschrift zur Änderung der Verwaltungsvorschrift wassergefährdender Stoffe - VwVwS vom 27. Juli 2005

BGIA GESTIS-Stoffdatenbank, Online research

Safety data sheets and further information from manufacturers / distributors

**16.4 Product:**

The given information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations.

This Safety Data Sheet has been adjusted to the Directive (EC) 453/2010.