Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.09.2019

ODUCTS, INC.

Revision: 14.05.2019

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

· Product identifier

· Trade name: Ultradent[™] Citric Acid Solution

• Article number: 15072

· Index number: SDS 31-001.09

• **Relevant identified uses of the substance or mixture and uses advised against** Professional Dental Root Canal Cleansing & Conditioning Agent • **Application of the substance / the mixture** Professional Dental Root Canal Cleansing & Conditioning Agent

 Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Ultradent Products Inc.
 505 W. Ultradent Drive (10200 S)
 South Jordan, UT 84095-3942
 USA
 onlineordersupport@utradent.com

EC Responsible Person Ultradent Products GmbH Am Westhover Berg 30 51149 Cologne Germany Email: infoDe@ultradent.com Emergency Phone: +49(0)2203-35-92-0

• Further information obtainable from: Customer Service • Emergency telephone number: CHEMTREC (NORTH AMERICA) :(800) 424-9300 (INTERNATIONAL) : +(703) 527-3887

2 Hazards identification

Classification of the substance or mixture
 Classification according to Regulation (EC) No 1272/2008

GHS05 corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.



STOT SE 3 H335 May cause respiratory irritation.

· Label elements

· Labelling according to Regulation (EC) No 1272/2008

The Regulation EC 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP) shall not apply to a medical device in the finished state used in direct physical contact with the human body according to Art. 1.5 (d). Therefore, the product is exempted from the CLP labeling requirements, and no SDS is required by Regulation 1907/2006, Art. 2 (6c), REACH. Therefore, all given data, classification, and information on this SDS are provided solely on a voluntary basis.

• Hazard pictograms GHS05, GHS07

(Contd. on page 2)

Printing date 10.09.2019

Revision: 14.05.2019

Trade name: Ultradent[™] Citric Acid Solution

Signal word I	(Contd. of page 1)
0	
	mining components of labelling:
Citric Acid M	
Hazard staten	
	severe skin burns and eye damage.
H335 May cat	use respiratory irritation.
Precautionary	v statements
P101	<i>If medical advice is needed, have product container or label at hand.</i>
P102	Keep out of reach of children.
P103	Read label before use.
P303+P361+	P353 IF ON SKIN (or hair): 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.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
1 501	regulations.
Other hazard	

- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterisation: Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

 Dangerous components 	S:	
CAS: 5949-29-1	Citric Acid Monohydrate	<i>≤</i> 25%
EC number: 691-328-9		
	Dimethicone	<i>≤</i> 2.5%
	🚸 Repr. 2, H361f; STOT RE 2, H373	
· Additional information	· For the wording of the listed hazard phrases refer to section 16	

Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

· Description of first aid measures

• General information: Immediately remove any clothing soiled by the product.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. • After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

• 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.

· Information for doctor:

· Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)

GB2

Printing date 10.09.2019

Revision: 14.05.2019

(Contd. of page 2)

Trade name: Ultradent[™] Citric Acid Solution

• *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- Foam, dry chemical, carbon dioxide
- Use fire extinguishing methods suitable to surrounding conditions.
- · Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- Advice for firefighters:
- Protective equipment:
- Wear fully protective suit.

Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
- Wear protective equipment. Keep unprotected persons away.
- $\cdot \textit{Environmental precautions: } Do not allow to enter sewers/ \textit{surface or ground water.}$
- 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.

Ensure adequate ventilation.

- · 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.

7 Handling and storage

- · Handling:
- · Precautions for safe handling:
- Avoid contact with eyes, skin, and clothing. Use suitable protective equpment. Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- · Information about fire and explosion protection: Keep respiratory protective device available.
- · 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: Not required.
- Further information about storage conditions: See product labelling.
- Keep container tightly sealed.
- · Specific end use(s) Professional Dental Root Canal Cleansing & Conditioning Agent

(Contd. on page 4)

GB2

Printing date 10.09.2019

Revision: 14.05.2019

Trade name: Ultradent[™] Citric Acid Solution

(Contd. of page 3)

8 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:

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.
- · 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. Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

· Respiratory protection:

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.

· Protection of hands:



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 the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of 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 breakthrough 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

 Information on basic phys General Information 	ical and chemical properties	
· Appearance:		
Form:	Liquid	
Colour:	Orange	
· Odour:	Odourless	

Printing date 10.09.2019

Revision: 14.05.2019

Trade name: Ultradent[™] Citric Acid Solution

		(Contd. of page
Odour threshold:	Not determined.	
pH-value at 20 °C:	1.7	
Change in condition Melting point/freezing point: Initial boiling point and boiling range.	Undetermined. : Undetermined.	
Flash point:	Not determined	
· Flammability (solid, gas):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits: Lower: Upper:	Not determined. Not determined.	
· Vapour pressure:	Not determined.	
· Density at 20 °C: · Relative density · Vapour density · Evaporation rate	1.1-1.2 g/cm ³ Not determined. Not determined. Not determined.	
Solubility in / Miscibility with water:	Partly soluble.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
Solvent content: Water: VOC (EC)	<90 % 0.00 %	
Solids content: Other information	<40.0 % No further relevant information available.	

10 Stability and reactivity

- · Reactivity Stable
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid:
- Ignition sources

Flames Heat

· Incompatible materials: Strong caustics, most metals

· Hazardous decomposition products: Carbon dioxide

(Contd. on page 6)

GB2

Printing date 10.09.2019

Revision: 14.05.2019

Trade name: Ultradent[™] Citric Acid Solution

(Contd. of page 5)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

5949-29-1 Citric Acid Monohydrate

Oral LD50 5,790 mg/kg (mouse)

· 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 (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
- May cause respiratory irritation.
- 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.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · *Mobility in soil* No further relevant information available.
- Additional ecological information:

· General notes:

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

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.

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.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- *Recommendation* Do not allow product to reach sewage system.

· European waste catalogue

HP4 Irritant - skin irritation and eye damage

(Contd. on page 7)

GB2

Printing date 10.09.2019

Revision: 14.05.2019

Trade name: Ultradent[™] Citric Acid Solution

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

UN-Number ADR, ADN, IMDG, IATA	not regulated	
UN proper shipping name ADR, ADN, IMDG, IATA	not regulated	
Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class	not regulated	
Packing group ADR, IMDG, IATA	not regulated	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex L and the IBC Code	I of Marpol Not applicable.	
UN "Model Regulation":	not regulated	

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · Chemical safety assessment:

Device is biocompatible when used as directed by dental professionals per ISO 10993-1

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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

· Department issuing SDS: Regulatory Affairs

· Contact: Customer Service

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

(Contd. on page 8)

(Contd. of page 6)

Printing date 10.09.2019

Revision: 14.05.2019

Trade name: Ultradent[™] Citric Acid Solution

 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) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Corr. 1A: Skin corrosion/irritation – Category 1A Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 2 Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 	(Contd. of page 7)
	GB2