

Page 1/9

Safety Data Sheet according to WHS Regulations

Printing date 03.08.2023

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Revision: 03.08.2023

I Identification	
· Product identifier	
· Trade name: Ultradent TM Porcelain Etch	
 Article number: SDS 4-001.16R02, 10324 Relevant identified uses of the substance or mixture and uses advised against Professional dental acid etching solution Application of the substance / the mixture Professional dental acid etching solution 	ution
• 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@ultradent.com	
Ultradent Australia Pty Ltd. Level 22/2 Market Street Sydney NSW 2000 Australia	
Email: info.anz@ultradent.com Toll Free: 1-800-290929	
Toll Free: 1-800-290929 • Further information obtainable from: Customer Service • Emergency telephone number: CHEMTREC (NORTH AMERICA) :(800) 424-9300 (INTERNATIONAL) : +(703) 527-3887	
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Printing date 03.08.2023

Revision: 03.08.2023

Trade name: UltradentTM Porcelain Etch

	(Contd. of page 1)
· Hazard-determi	ning components of labelling:
Hydrofluoric Ac	
· Hazard statemen	nts
H301 Toxic if sw	vallowed.
H310 Fatal in co	pntact with skin.
H331 Toxic if in	haled.
H314 Causes set	vere skin burns and eye damage.
· Precautionary st	tatements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe dusts or mists.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P321	Specific treatment (see on this label).
P303+P361+P3	53 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P3	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

7664-39-3 Hydrofluoric Acid

🛞 Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; 📀 Skin Corr. 1A	1, H314

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

4 First Aid Measures

• General information:

Immediately remove any clothing soiled by the product.

Remove breathing equipment only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact:

Rub in Ca-gluconate solution or Ca-gluconate gel immediately.

Immediately remove all soiled and contaminated clothing.

Seek immediate medical advice.

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:

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

(Contd. on page 3)

≥7-<10%

⁻ AU

Printing date 03.08.2023

Revision: 03.08.2023

(Contd. of page 2)

Trade name: UltradentTM Porcelain Etch

· Information for doctor:

- · 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.

5 Fire Fighting Measures

· 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.
- · Protective equipment: 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.*
- Environmental precautions: No special measures required.
- 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:
- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- Prevent formation of aerosols.
- · Information about fire and explosion protection: Keep respiratory protective device available.
- · Storage:
- Requirements to be met by storerooms and receptacles: Unsuitable material for receptacle: glass or ceramic.
- · 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 Acid Etching Solution

8 Exposure controls and personal protection

• Additional information about design of technical facilities: No further data; see item 7.

(Contd. on page 4)

AU

Printing date 03.08.2023

· pH-value:

Change in condition
 Melting point/freezing point: Undeten
 Initial boiling point and boiling range: 100 °C

Revision: 03.08.2023

(Contd. on page 5)

AU

Trade name: UltradentTM Porcelain Etch

	(Contd. of page 3)
· Ingredients with limit values that requ	
7664-39-3 Hydrofluoric Acid	
WES Peak limitation: 2.6 mg/m ³ , 3 pp	m
• Additional information: The lists valid	
• Personal protective equipment:	
• General protective and hygienic meas	ures:
Keep away from foodstuffs, beverages	and feed.
Immediately remove all soiled and con	taminated clothing.
Wash hands before breaks and at the e	nd of work.
Store protective clothing separately.	
Avoid contact with the eyes.	
Avoid contact with the eyes and skin.	
Respiratory protection:	
	ion use respiratory filter device. In case of intensive or longer exposure use
self-contained respiratory protective de • Protection of hands:	evice.
Trolecuon of nanas.	
μ. M	
Protective gloves	
The close material has to be imported	ble and registrant to the medical (the substance of the mean quation
	tble and resistant to the product/ the substance/ the preparation. ion to the glove material can be given for the product/ the preparation/ the
chemical mixture.	on to the glove material can be given for the product/ the preparation/ the
	ideration of the penetration times, rates of diffusion and the degradation
• Material of gloves	actuation of the pertertation times, rates of all usion and the acgradation
	not only depend on the material, but also on further marks of quality and
	urer. As the product is a preparation of several substances, the resistance of
	ed 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	
Tignily search goggies	
• Body protection: Protective work cloth	ling
9 Physical and Chemical Propert	ins
· General Information	
· Appearance:	
· Form:	Gel
· Colour:	Yellow
· Odour:	Acidic
• Odour threshold:	Not determined.

Not determined.

Undetermined.

Printing date 03.08.2023

Revision: 03.08.2023

Trade name: UltradentTM Porcelain Etch

	(Contd. of page 4)
· Flash point:	Not applicable.
· 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:	Not determined.
· Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density at 20 °C:	$1.1-1.2 \ g/cm^3$
Relative density	Not determined.
· Vapour density	Not determined.
• Evaporation rate	Not determined.
• Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
• Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic:	Not determined.
· Other information	No further relevant information available.

10 Stability and Reactivity

- · Reactivity No further relevant information available.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: Reacts with organic substances. Reacts with strong alkali. Reacts with acids. Reacts with certain metals.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Hydrogen fluoride Hydrogen Corrosive gases/vapours

11 Toxicological Information

- · Information on toxicological effects
- Acute toxicity Toxic if swallowed. Fatal in contact with skin. Toxic if inhaled.

ATE (Acute Toxicity Estimates)

Oral	LD50	51.4-58.2 mg/kg
	LD50	51.4-58.2 mg/kg
Inhalative	LC50/4 h	5.14-5.82 mg/l

(Contd. on page 6)

AU

Printing date 03.08.2023

Revision: 03.08.2023

Trade name:	Ultradent [™] Porcelain	Etch

Skin corrosion/irritation Causes severe skin burns and eye damage.	(Contd. of page
Skin corrosson/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.	
Germ cell mutagenicity	
Does not meet the classification criteria for this hazard class.	
Based on available data, the classification criteria are not met.	
Carcinogenicity	
Does not meet the classification criteria for this hazard class.	
Based on available data, the classification criteria are not met.	
Reproductive toxicity	
Does not meet the classification criteria for this hazard class.	
Based on available data, the classification criteria are not met.	
STOT-single exposure	
Does not meet the classification criteria for this hazard class.	
Based on available data, the classification criteria are not met.	
STOT-repeated exposure	
Does not meet the classification criteria for this hazard class.	
Based on available data, the classification criteria are not met.	
Aspiration hazard	
Does not meet the classification criteria for this hazard class.	
Based on available data, the classification criteria are not met.	

· 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:* Not hazardous for water.

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

- · 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

Dispose of contents/container in accordance with international, federal, state, and local regulations.

• Uncleaned packaging:

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

(Contd. on page 7)

Printing date 03.08.2023

Revision: 03.08.2023

Trade name: UltradentTM Porcelain Etch

(Contd. of page 6)

AU -

UN-Number ADG, IMDG, IATA	UN1790	
UN proper shipping name		
ADG IMDG, IATA	1790 HYDROFLUORIC ACID HYDROFLUORIC ACID	
Transport hazard class(es)		
ADG		
B B B B B B B B B B B B B B B B B B B		
Class Label	8 Corrosive substances. 8+6.1	
IMDG		
Class	8 Corrosive substances.	
Label	8/6.1	
IATA	8 Corrosive substances.	
Label	8 (6.1)	
Packing group	11	
ADG, IMDG, IATA Environmental hazards:	II Not applicable.	
Special precautions for user	Warning: Corrosive substances.	
Special precautions for user Hazard identification number (Kemler code):	86	
EMS Number:	<i>F-A,S-B</i>	
Segregation groups	(SGG1a) Strong acids	
Stowage Category	D	
Stowage Code	SW1 Protected from sources of heat. SW2 Clear of living quarters.	
Handling Code	H2 Keep as cool as reasonably practicable	
Segregation Code	SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides	
Transport in bulk according to Annex II of Mar	· · · ·	

Printing date 03.08.2023

Revision: 03.08.2023

Trade name: UltradentTM Porcelain Etch

(Contd. of page
1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
2
Ε
1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
UN 1790 HYDROFLUORIC ACID, 8 (6.1), II

15 Regulatory information

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

• Australian Inventory	of Industrial Chemicals
------------------------	-------------------------

7732-18-5 Water

11138-66-2 Xanthan Gum

1934-21-0 FD&C Yellow 5

· Standard for the Uniform Scheduling of Medicines and Poisons

7664-39-3 Hydrofluoric Acid

• Australia: Priority Existing Chemicals

None of the ingredients is listed.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

• Seveso category H2 ACUTE TOXIC

- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · Chemical safety assessment:

Device is a strong acid and is extremely toxic. It is to be used only as directed with PPE, and only by licensed dental professionals.

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 from Section 3
H300 Fatal if swallowed.
H310 Fatal in contact with skin.
H314 Causes severe skin burns and eye damage.
H330 Fatal if inhaled.

• Department issuing SDS: Environmental, Health, and Safety • Contact: Customer Service

(Contd. on page 9)

S5, S6, S7

Printing date 03.08.2023

Revision: 03.08.2023

Trade name: UltradentTM Porcelain Etch

	Contd. of page 8
Abbreviations and acronyms:	
ADR: Accord relatif au transport international 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	
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. 2: Acute toxicity – Category 2	
Acute Tox. 3: Acute toxicity – Category 3	
Acute Tox. 1: Acute toxicity – Category 1	
Skin Corr. 1A: Skin corrosion/irritation – Category 1A	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
* Data compared to the previous version altered.	
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