

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 10/08/2009

Reviewed on 10/08/2009

1 Identification of substance

- **Product details**
- **Trade name: Wilavest Sonic Liquid**
- **Application of the substance / the preparation**
Paint remover
Manufacture of dental prothesis
- **Manufacturer/Supplier:**
Wieland Dental + Technik GmbH & Co.KG
Schwenninger Str. 13
75179 Pforzheim
Telefon + 49 (07231)-37050, Telefax + 49 (07231)-357959
- **Information department:**
Abteilung Umweltschutz
Marcus.Mueller@wieland-dental.de
- **Emergency information:** +49 (07231)-37050

2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

7664-93-9	sulphuric acid	5-10%
16872-11-0	fluoroboric acid	1-5%
7664-39-3	hydrofluoric acid	1-5%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Hazard description:**



Toxic
Corrosive

- **Information pertaining to particular dangers for man 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 latest valid version.

Toxic by inhalation, in contact with skin and if swallowed.

Causes burns.

Irritating to respiratory system.

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **NFPA ratings (scale 0 - 4)**



Health = 3
Fire = 0
Reactivity = 0

- **WHMIS-ratings (scale 0 - 4)**



HEALTH 3 Health = 3
FIRE 0 Fire = 0
REACTIVITY 0 Reactivity = 0

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4 First aid measures

- **General information:**

Immediately remove any clothing soiled by the product.
In case of irregular breathing or respiratory arrest provide artificial respiration.

- **After inhalation:**

Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.

- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing:**

Do not induce vomiting; immediately call for medical help.
Drink copious amounts of water and provide fresh air. Immediately call a doctor.

5 Fire fighting measures

- **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **Protective equipment:** Wear self-contained respiratory protective device.

- **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.

- **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

7 Handling and storage

- **Handling:**

- **Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

- **Information about protection against explosions and fires:** Keep respiratory protective device available.

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

- **Information about storage in one common storage facility:**

Do not store together with alkalis (caustic solutions).

- **Further information about storage conditions:** Keep receptacle tightly sealed.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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· Components with limit values that require monitoring at the workplace:
7664-38-2 phosphoric acid

PEL	1 mg/m ³
REL	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³
TLV	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³

7664-39-3 hydrofluoric acid

PEL	3 ppm as F
REL	Short-term value: C 5* mg/m ³ , C 6* ppm Long-term value: 2.5 mg/m ³ , 3 ppm *15-min
TLV	Short-term value: C 1.64 mg/m ³ , C 2* ppm Long-term value: 0.41 mg/m ³ , 0.5* ppm *as F; Skin

· **Additional information:** The lists that were valid during the creation 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.

· **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:**

Plastic gloves



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Material of gloves**

Fluorocarbon rubber (Viton)
Natural rubber, NR
Nitrile rubber, NBR
Chloroprene rubber, CR
Butyl rubber, BR

· **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.

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **General Information**

Form: Fluid

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Color:	Colorless
Odor:	Product specific
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 100°C (> 212°F)
· Flash point:	Not applicable.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Density at 20°C (68°F):	1.12 g/cm ³
· Solubility in / Miscibility with Water:	Fully miscible.
· pH-value at 20°C (68°F):	< 1
· Solvent content:	
Organic solvents:	0.0 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** Develops corrosive gases / fumes.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Strong 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 internally approved calculation methods for preparations:
Toxic
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

- **General notes:**
Water hazard class 1 (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.

13 Disposal considerations

- **Product:**
- **Recommendation:** Must be specially treated adhering to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Packaging can be reused or recycled after cleaning.

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· Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

· DOT regulations:



- Hazard class: 8
- Identification number: UN2922
- Packing group: II
- Proper shipping name (technical name): CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROFLUORIC ACID, SULPHURIC ACID)
- Label: 8+6.1

· Land transport ADR/RID (cross-border):



- ADR/RID class: 8 (CT1) Corrosive substances
- Danger code (Kemler): 86
- UN-Number: 2922
- Packaging group: II
- Description of goods: 3264 Corrosive liquid, acidic, inorganic, n.o.s., hydrofluoric acid

· Maritime transport IMDG:



- IMDG Class: 8
- UN Number: 2922
- Label: 8+6.1
- Packaging group: II
- EMS Number: F-A,S-B
- Marine pollutant: No
- Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROFLUORIC ACID, SULPHURIC ACID)

· Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 8
- UN/ID Number: 2922
- Label: 8+6.1
- Packaging group: II
- Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROFLUORIC ACID, SULPHURIC ACID)

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15 Regulations

* · **Sara**

· **Section 355 (extremely hazardous substances):**

7664-93-9	sulphuric acid
7664-39-3	hydrofluoric acid

· **Section 313 (Specific toxic chemical listings):**

7664-93-9	sulphuric acid
7664-38-2	phosphoric acid
7664-39-3	hydrofluoric acid

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

7664-93-9	sulphuric acid		1
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· **NTP (National Toxicology Program)**

7664-93-9	sulphuric acid		K
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· **TLV (Threshold Limit Value established by ACGIH)**

7664-93-9	sulphuric acid		A2
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· **MAK (German Maximum Workplace Concentration)**

7664-93-9	sulphuric acid		4
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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**

Toxic

Corrosive

· **Hazard-determining components of labelling:**

hydrofluoric acid

sulphuric acid

· **Risk phrases:**

Toxic by inhalation, in contact with skin and if swallowed.

Causes burns.

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Irritating to respiratory system.

· Safety phrases:

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

Wear suitable protective clothing, gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately.

This material and its container must be disposed of as hazardous waste.

· National regulations:**· Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.**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.

· Department issuing MSDS: Abteilung Umweltschutz**· Contact:** Herr Marcus Müller**· * Data compared to the previous version altered.**

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