

## Safety Data Sheet

according to WHMIS

### VITA CERAMICS ETCH

Revision date: 09.01.2017

Product code: 019-CA

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## 1. Identification

### Product identifier

VITA CERAMICS ETCH

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

#### Use of the substance/mixture

Use as laboratory reagent

### Details of the supplier of the safety data sheet

Company name: VITA Zahnfabrik H. Rauter GmbH &amp; Co. KG

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Internet: www.vita-zahnfabrik.com

**Emergency telephone number:** +49-(0)761-19240

## 2. Hazard identification

### Classification of the substance or mixture

#### WHMIS 2015

Hazard categories:

Substance or mixture corrosive to metals: Met. Corr. 1

Acute toxicity: Acute Tox. 2

Acute toxicity: Acute Tox. 3

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

May be corrosive to metals.

Fatal in contact with skin.

Toxic if swallowed.

Harmful if inhaled.

Causes severe skin burns and eye damage.

Causes serious eye damage.

### Label elements

#### WHMIS 2015

**Signal word:** Danger**Pictograms:**

#### Hazard statements

Fatal in contact with skin.

Toxic if swallowed.

Harmful if inhaled.

Causes severe skin burns and eye damage.

#### Precautionary statements

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash ... thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

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IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

Specific treatment (see ... on this label).

#### Other hazards

No information available.

### 3. Composition/information on ingredients

#### Mixtures

##### Hazardous components

CAS No	Chemical name	Quantity
7664-93-9	Sulphuric acid ... %	5 - < 10 %
7664-39-3	hydrofluorid acid	1 - < 5 %
64-17-5	ethyl alcohol	1 - < 5 %

### 4. First-aid measures

#### Description of first aid measures

##### **General information**

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

##### **After inhalation**

Provide fresh air. Medical treatment necessary.

##### **After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately. IF ON SKIN (or hair): Ca-Gluconate solution

##### **After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

##### **After ingestion**

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately.

#### Indication of immediate medical attention and special treatment needed

Treat symptomatically.

### 5. Fire-fighting measures

#### Extinguishing media

##### **Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

#### Specific hazards arising from the hazardous product

Non-flammable.

#### Special protective equipment and precautions for fire-fighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### **Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

### Environmental precautions

Do not allow to enter into surface water or drains.

### Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## 7. Handling and storage

### Precautions for safe handling

#### **Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### **Advice on protection against fire and explosion**

No special fire protection measures are necessary.

### Conditions for safe storage, including any incompatibilities

#### **Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

#### **Advice on storage compatibility**

No special measures are necessary.

## 8. Exposure controls/Personal protection

### Control parameters

### Exposure limits (ACGIH)

CAS No	Chemical name	ppm	mg/m <sup>3</sup>	F/ml	Category	Origin
64-17-5	Ethanol	-	-		TWA (8 h)	ACGIH-2016
		1000			STEL (15 min)	ACGIH-2016
7664-39-3	Hydrogen fluoride, as F	0.5			TWA (8 h)	ACGIH-2016
		2			Peak	ACGIH-2016
7664-93-9	Sulfuric acid (thoracic fraction)		0.2		TWA (8 h)	ACGIH-2016

### Exposure controls



#### **Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe

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gas/fumes/vapour/spray.

#### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

#### Eye/face protection

Wear eye/face protection. Suitable eye protection: goggles.

#### Hand protection

Recommended glove articles KCL Dermatril P Wearing time with occasional contact (splashes): 480 min

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state:

Colour: light red  
 Odour: characteristic

pH-Value: 2,0

#### Changes in the physical state

Melting point: not determined  
 Initial boiling point and boiling range: 100 °C

#### Flammability

Solid: not applicable  
 Gas: not applicable

Lower explosive limits: not determined  
 Upper explosive limits: not determined

#### Auto-ignition temperature

Solid: not applicable  
 Gas: not applicable

Decomposition temperature: not determined

#### Oxidizing properties

Not oxidizing.

Vapour pressure: <=1100 hPa  
 (at 50 °C)

Density: 1,06000 g/cm<sup>3</sup>

#### Solubility in other solvents

not determined

Partition coefficient: not determined

Vapour density: not determined

#### Test method

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Evaporation rate: not determined

#### Other information

Solid content: 1,5 %

## 10. Stability and reactivity

#### Conditions to avoid

none

#### Incompatible materials

No information available.

#### Hazardous decomposition products

No known hazardous decomposition products.

## 11. Toxicological information

#### Information on toxicological effects

##### **Acute toxicity**

Fatal in contact with skin.

Toxic if swallowed.

Harmful if inhaled.

CAS No	Chemical name				
	Route of exposure	Dose	Species	Source	Method
7664-39-3	hydrofluorid acid				
	oral	ATE 5 mg/kg			
	dermal	ATE 5 mg/kg			
	inhalative vapour	ATE 0,5 mg/l			
	inhalative aerosol	ATE 0,05 mg/l			
64-17-5	ethyl alcohol				
	dermal	LD50 7060 mg/kg			

##### **Irritation and corrosivity**

Causes severe skin burns and eye damage.

##### **Sensitizing effects**

Based on available data, the classification criteria are not met.

##### **Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

##### **STOT-single exposure**

Based on available data, the classification criteria are not met.

##### **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.

##### **Additional information on tests**

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

## 12. Ecological information

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#### Ecotoxicity

The product is not: Ecotoxic.

#### Persistence and degradability

The product has not been tested.

#### Bioaccumulative potential

The product has not been tested.

#### Mobility in soil

The product has not been tested.

#### Other adverse effects

No information available.

#### Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### 13. Disposal considerations

#### Waste treatment methods

##### Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

##### Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

### 14. Transport information

#### Marine transport (IMDG)

##### UN number:

UN 2922

##### United Nations proper shipping name:

CORROSIVE LIQUID, TOXIC, N.O.S. (Wasser)

##### Transport hazard class(es):

8

##### Packing group:

II

Hazard label:

8+6.1



Limited quantity:

1 L

Excepted quantity:

E2

EmS:

F-A, S-B

#### Air transport (ICAO-TI/IATA-DGR)

##### UN number:

UN 2922

##### United Nations proper shipping name:

CORROSIVE LIQUID, TOXIC, N.O.S. (Wasser)

##### Transport hazard class(es):

8

##### Packing group:

II

Hazard label:

8+6.1



Limited quantity Passenger:

0.5 L

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Passenger LQ:	Y840	
Excepted quantity:	E2	
IATA-packing instructions - Passenger:		851
IATA-max. quantity - Passenger:		1 L
IATA-packing instructions - Cargo:		855
IATA-max. quantity - Cargo:		30 L

#### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

### 15. Regulatory information

#### Canadian regulations

### 16. Other information

#### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*