

## Safety Data Sheet

according to the Preparation of Safety data Sheets for  
Hazardous Chemicals Code of Practice

Revision date: 03.02.2020

### VITA ADIVA CERA ETCH Product Code 307

Page 1 of 9

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

VITA ADIVA CERA ETCH

#### Product code:

6NH1-20UD-X00W-YF2U

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

#### Use of the substance/mixture

Use as laboratory reagent

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

#### Manufacturer

|                  |                                       |                             |
|------------------|---------------------------------------|-----------------------------|
| Company name:    | VITA Zahnfabrik H.Rauter GmbH & Co.KG |                             |
| Post-office box: | 1338                                  |                             |
|                  | 79704 Bad Säckingen                   |                             |
| Telephone:       | +49(0)7761-562-0                      | Telefax: +49(0)7761-562-299 |
| e-mail:          | info@vita-zahnfabrik.com              |                             |
| Internet:        | www.vita-zahnfabrik.com               |                             |

#### Supplier

|                 |                |                  |
|-----------------|----------------|------------------|
| Company name:   | Company Name   |                  |
| Street:         | Street         |                  |
| Place:          | 79704 Town     |                  |
| Telephone:      | Phone          | Telefax: Telefax |
| e-mail:         | email          |                  |
| Contact person: | Contact person |                  |
| Internet:       | url            |                  |

### 1.4. Emergency telephone number:

+49-(0)761-19240

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### UN-GHS (Rev.3)

Hazard categories:

Acute toxicity: Acute Tox. 2

Acute toxicity: Acute Tox. 3

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Fatal in contact with skin.

Toxic if swallowed.

Harmful if inhaled.

Causes severe skin burns and eye damage.

Causes serious eye damage.

### 2.2. Label elements

#### UN-GHS (Rev.3)

#### Hazard components for labelling

hydrofluorid acid

Sulphuric acid

Signal word: Danger

## Safety Data Sheet

according to the Preparation of Safety data Sheets for  
Hazardous Chemicals Code of Practice

### VITA ADIVA CERA ETCH

Revision date: 03.02.2020

Page 2 of 9

#### Pictograms:



#### Hazard statements

|      |  |
|------|--|
| H301 | Toxic if swallowed.                      |
| H310 | Fatal in contact with skin.              |
| H314 | Causes severe skin burns and eye damage. |
| H332 | Harmful if inhaled.                      |

#### Precautionary statements

|                |  |
|----------------|--|
| P260           | Do not breathe dust/fume/gas/mist/vapours/spray.   |
| P262           | Do not get in eyes, on skin, or on clothing.   |
| P264           | Wash hands thoroughly after handling.  |
| P270           | Do not eat, drink or smoke when using this product.  |
| P271           | Use only outdoors or in a well-ventilated area.  |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.   |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.                           |
| P361+P364      | Take off immediately all contaminated clothing and wash it before reuse.   |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| 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.   |
| P405           | Store locked up.   |
| P501           | Dispose of waste according to applicable legislation.  |

#### 2.3. Other hazards

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.2. 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   | Ethanol           | 1 - < 5 %  |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

When in doubt or if symptoms are observed, get medical advice.

##### After inhalation

Provide fresh air. If experiencing respiratory symptoms: Call a doctor.

##### 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

## Safety Data Sheet

according to the Preparation of Safety data Sheets for  
Hazardous Chemicals Code of Practice

### VITA ADIVA CERA ETCH

Revision date: 03.02.2020

Page 3 of 9

apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. If swallowed, immediately drink: Ca-Gluconate solution

#### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

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

#### 5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Gases/vapours, toxic.

#### 5.3. Advice for firefighters

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. Use water spray jet to protect personnel and to cool endangered containers.

### SECTION 6: Accidental release measures

#### 6.1. 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. Remove persons to safety.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. 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.

#### 6.4. Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

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

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

Usual measures for fire prevention.

#### 7.2. 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 exhaust at critical locations.

## Safety Data Sheet

according to the Preparation of Safety data Sheets for  
Hazardous Chemicals Code of Practice

### VITA ADIVA CERA ETCH

Revision date: 03.02.2020

Page 4 of 9

#### Hints on joint storage

No information available.

#### 7.3. Specific end use(s)

Use as laboratory reagent

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Additional advice on limit values

Value:

Ethanol

1000 ppm (1880 mg/m<sup>3</sup>) TWA

Sulphuric acid

1 mg/m<sup>3</sup> TWA

3 mg/m<sup>3</sup> STEL

hydrofluorid acid

3 ppm (2,6 mg/m<sup>3</sup>) Peak limitation TWA

Source: Workplace exposure standards for airborne contaminants, Publication date: 16 December 2019

#### 8.2. Exposure controls



##### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

##### 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, drink or smoke. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

##### Eye/face protection

Wear eye/face protection.

##### Hand protection

Wear suitable gloves.

Suitable material: NBR (Nitrile rubber)

Breakthrough time (maximum wearing time): 480 min

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. Provide adequate ventilation as well as local exhaust at critical locations.

##### Environmental exposure controls

Do not allow to enter into surface water or drains.

## Safety Data Sheet

according to the Preparation of Safety data Sheets for  
Hazardous Chemicals Code of Practice

### VITA ADIVA CERA ETCH

Revision date: 03.02.2020

Page 5 of 9

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                 |                |
|-----------------|----------------|
| Physical state: | Liquid         |
| 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         |
| Flash point:                             | not determined |

#### Flammability

|        |                |
|--------|----------------|
| Solid: | not applicable |
| Gas:   | not applicable |

#### Explosive properties

No information available.

|                         |                |
|-------------------------|----------------|
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |
| Ignition temperature:   | not determined |

#### Auto-ignition temperature

|        |                |
|--------|----------------|
| Solid: | not applicable |
| Gas:   | not applicable |

|                            |                |
|----------------------------|----------------|
| Decomposition temperature: | not determined |
|----------------------------|----------------|

#### Oxidizing properties

Not oxidising.

|                                |                           |
|--------------------------------|---------------------------|
| Vapour pressure:<br>(at 50 °C) | <= 1100 hPa               |
| Density:                       | 1,06000 g/cm <sup>3</sup> |
| Water solubility:              | easily soluble            |

#### Solubility in other solvents

not determined

|                        |                |
|------------------------|----------------|
| Partition coefficient: | not determined |
| Viscosity / dynamic:   | not determined |
| Viscosity / kinematic: | not determined |
| Vapour density:        | not determined |
| Evaporation rate:      | not determined |

### 9.2. Other information

|                  |                |
|------------------|----------------|
| Solid content:   | 1,5 %          |
| Odour threshold: | not determined |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

## Safety Data Sheet

according to the Preparation of Safety data Sheets for  
Hazardous Chemicals Code of Practice

### VITA ADIVA CERA ETCH

Revision date: 03.02.2020

Page 6 of 9

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

No information available.

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

In case of fire may be liberated: Gases/vapours, toxic.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

Fatal in contact with skin.

Toxic if swallowed.

Harmful if inhaled.

##### ATEmix calculated

ATE (oral) 100,4 mg/kg; ATE (dermal) 100,4 mg/kg; ATE (inhalation vapour) 10,04 mg/l; ATE (inhalation aerosol) 1,004 mg/l

| CAS No    | Chemical name      |               |         |        |        |
|-----------|--------------------|---------------|---------|--------|--------|
|           | Exposure route     | Dose          | Species | Source | Method |
| 7664-39-3 | hydrofluorid acid  |               |         |        |        |
|           | oral               | ATE 5 mg/kg   |         |        |        |
|           | dermal             | ATE 5 mg/kg   |         |        |        |
|           | inhalation vapour  | ATE 0,5 mg/l  |         |        |        |
|           | inhalation aerosol | ATE 0,05 mg/l |         |        |        |

##### Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

##### Sensitising 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.

### SECTION 12: Ecological information

#### 12.1. Toxicity

The product is not: Ecotoxic.

#### 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

## Safety Data Sheet

according to the Preparation of Safety data Sheets for  
Hazardous Chemicals Code of Practice

### VITA ADIVA CERA ETCH

Revision date: 03.02.2020

Page 7 of 9

The product has not been tested.

#### **12.4. Mobility in soil**

The product has not been tested.

#### **12.5. 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.

### SECTION 13: Disposal considerations

#### **13.1. Waste treatment methods**

##### **Disposal recommendations**

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.

### SECTION 14: Transport information

#### **Land transport (ADG)**

|  |   |
|--|---|
| <b>14.1. UN number:</b>                  | UN 2922   |
| <b>14.2. UN proper shipping name:</b>    | CORROSIVE LIQUID, TOXIC, N.O.S. (hydrofluorid acid, Sulphuric acid) |
| <b>14.3. Transport hazard class(es):</b> | 8   |
| <b>14.4. Packing group:</b>              | II  |
| Special Provisions:                      | 274   |
| Limited quantity:                        | 1 L   |
| Excepted quantity:                       | E2  |

##### **Other applicable information (land transport)**

HAZCHEM: 2X

#### **Marine transport (IMDG)**

|  |   |
|--|---|
| <b>14.1. UN number:</b>                  | UN 2922   |
| <b>14.2. UN proper shipping name:</b>    | CORROSIVE LIQUID, TOXIC, N.O.S. (hydrofluorid acid, Sulphuric acid) |
| <b>14.3. Transport hazard class(es):</b> | 8   |
| <b>14.4. Packing group:</b>              | II  |
| Hazard label:                            | 8+6.1   |



|                     |          |
|---------------------|----------|
| Special Provisions: | 274      |
| Limited quantity:   | 1 L      |
| Excepted quantity:  | E2       |
| EmS:                | F-A, S-B |

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

|  |   |
|--|---|
| <b>14.1. UN number:</b>                  | UN 2922   |
| <b>14.2. UN proper shipping name:</b>    | CORROSIVE LIQUID, TOXIC, N.O.S. (hydrofluorid acid, Sulphuric acid) |
| <b>14.3. Transport hazard class(es):</b> | 8   |
| <b>14.4. Packing group:</b>              | II  |
| Hazard label:                            | 8+6.1   |

## Safety Data Sheet

according to the Preparation of Safety data Sheets for  
Hazardous Chemicals Code of Practice

### VITA ADIVA CERA ETCH

Revision date: 03.02.2020

Page 8 of 9



|  |         |      |
|--|---------|------|
| Special Provisions:                    | A3 A803 |      |
| Limited quantity Passenger:            | 0.5 L   |      |
| 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 |

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

#### 14.6. Special precautions for user

Warning: Toxic. strongly corrosive.

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

### SECTION 15: Regulatory information

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

##### National regulatory information

##### Additional information

AICS  
hydrofluorid acid: Yes.  
Sulphuric acid: Yes.  
Ethanol: Yes.

SUSPM  
hydrofluorid acid: Yes.  
Sulphuric acid: Yes.  
Ethanol: Yes.

### SECTION 16: Other information

#### Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists  
ADG: Australian Dangerous Goods  
AICS: Australian Inventory of Chemical Substances  
ICAO: International Civil Aviation Organization  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
CAS: Chemical Abstracts Service  
STEL: Short-term exposure limit  
TWA: time-weighted average  
TI: Technical Instructions  
DGR: Dangerous Goods Regulations  
UN: United Nations  
ATE: Acute toxicity estimate  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%



## Safety Data Sheet

according to the Preparation of Safety data Sheets for  
Hazardous Chemicals Code of Practice

### VITA ADIVA CERA ETCH

Revision date: 03.02.2020

Page 9 of 9

LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
VOC: Volatile Organic Compounds  
SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons

#### 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.

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