# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

077812100

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

077812001 077812019 077812027 077812035 077812043 077812050 077812068 077812076 077812084 077812092 077812159 077812167 077812175 077812183 077812191 077812209 077812217 077812225 077812233 077812241 077812258

Telefax: +49. (0) 40. 84006-222

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

#### Vitique

Print date: 28.03.2013 Product code: 1040 Page 1 of 4

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

#### **Product identifier**

Vitique

Product group: Endprodukt

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

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

Company name: DMG Chemisch-Pharmazeutische Fabrik GmbH

www.dmg-dental.com

Street: Elbgaustraße 248
Place: D-22547 Hamburg
Telephone: +49. (0) 40. 84006-0

e-mail: info@dmg-dental.com

# SECTION 2: Hazards identification

# Classification of the substance or mixture

Indications of danger: Irritant

R-phrases:

Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.

#### **Label elements**

Internet:

Danger symbols: Xi - Irritant



Xi - Irritant

### Hazardous components which must be listed on the label

Methacrylic esters.

#### R phrases

36/37/38 Irritating to eyes, respiratory system and skin.43 May cause sensitization by skin contact.

S phrases

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

28 After contact with skin, wash immediately with plenty of Water and soap..

61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

24/25 Avoid contact with skin and eyes.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

#### **SECTION 3: Composition/information on ingredients**

#### **Mixtures**

#### Chemical characterization

chemical characterization (preparation): Acrylate.-resin.

# **SECTION 4: First aid measures**

# **Description of first aid measures**

according to Regulation (EC) No 1907/2006

#### **Vitique**

Print date: 28.03.2013 Product code: 1040 Page 2 of 4

#### After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

#### After contact with skin

After contact with skin, wash immediately with: Water and soap.

#### After contact with eyes

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

#### After ingestion

Immediately get medical attention.

# **SECTION 5: Firefighting measures**

#### Extinguishing media

#### Suitable extinguishing media

Water fog. Extinguishing powder. Sand. Foam. Carbon dioxide (CO2).

# Extinguishing media which must not be used for safety reasons

High power water jet.

#### **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear suitable protective clothing.

#### **Environmental precautions**

Do not empty into drains or the aquatic environment.

# Methods and material for containment and cleaning up

Collect mechanically.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

#### **SECTION 7: Handling and storage**

#### Precautions for safe handling

#### Advice on safe handling

Keep container tightly closed. Wear suitable protective clothing and gloves. Avoid contact with eyes.

# Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Store only in original container.

# **SECTION 8: Exposure controls/personal protection**

#### **Control parameters**

#### **Exposure controls**



# Protective and hygiene measures

Take off immediately all contaminated clothing. When using do not eat or drink.

#### Respiratory protection

The following must be prevented: inhalation.

#### Hand protection

Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber).

according to Regulation (EC) No 1907/2006

#### Vitique

Print date: 28.03.2013 Product code: 1040 Page 3 of 4

#### Eye protection

Tightly sealed safety glasses.

## **SECTION 9: Physical and chemical properties**

# Information on basic physical and chemical properties

Physical state: Paste
Colour: yellow
Odour: like: ester

Test method

pH-Value: 2,5

Changes in the physical state

Boiling point: >200 °C
Zersetzungspunkt: >60 °C
Vapour pressure: 1 hPa

(at 20 °C)

Density: 1,9 g/cm³ Water solubility: 5% g/L

(at 20 °C)

Vapour density: > 1

# **SECTION 10: Stability and reactivity**

# **Conditions to avoid**

heat. Light.

Decompostion takes place from temperatures above: 60 °C

#### **Incompatible materials**

radical former. Keep away from strong acids, leachates, heavy metal salts and reducing materials.

# Hazardous decomposition products

Can be released in case of fire: Gas / vapours, irritant. (Acrylate., pungent)

# **SECTION 11: Toxicological information**

## Information on toxicological effects

**Acute toxicity** 

LD50: Rat. 1.000 mg/kg

# Irritation and corrosivity

Irritant effect on the eye: strong irritant. Risk of serious damage to eyes.

#### Sensitising effects

May cause sensitization by skin contact.

#### Additional information on tests

Contains Methacrylic esters.: May produce an allergic reaction.

# **SECTION 12: Ecological information**

# Persistence and degradability

Do not empty into drains or the aquatic environment. Leakage into the environment must be prevented. Preparation not tested.

# **SECTION 13: Disposal considerations**

according to Regulation (EC) No 1907/2006

# Vitique

Print date: 28.03.2013 Product code: 1040 Page 4 of 4

#### Waste treatment methods

#### Advice on disposal

Can be burnt together with household waste in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

Paste: Carry out a burning of harzardous waste according to official regulations.

# Waste disposal number of waste from residues/unused products

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except

kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing

dangerous substances

Classified as hazardous waste.

# **SECTION 14: Transport information**

# Other applicable information

Not a hazardous material with respect to these transportation regulations.

# **SECTION 15: Regulatory information**

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

#### **National regulatory information**

Water contaminating class (D): 2 - water contaminating

## **SECTION 16: Other information**

# Full text of R-phrases referred to under sections 2 and 3

36/37/38 Irritating to eyes, respiratory system and skin.
43 May cause sensitization by skin contact.

#### Full text of H-Statements referred to under sections 2 and 3

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.

# **Further Information**

-

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

according to Regulation (EU) No. 1907/2006

#### **TECO**

Print date: 31.08.2010 MSDS: 2222 Page 1 of 4

# 1. Identification of the substance/preparation and of the company/undertaking

# Identification of the substance or preparation

**TECO** 

#### Company/undertaking identification

Company name: DMG Chemisch-Pharmazeutische Fabrik GmbH

Street: Elbgaustraße 248
Place: D-22547 Hamburg

 Telephone:
 +49. (0) 40. 84006-0
 Telefax:
 +49. (0) 40. 84006-222

 Internet:
 www.dmg-dental.com
 e-mail:
 info@dmg-dental.com

#### 2. Hazards identification

#### Classification

Indications of danger: Irritant

R-phrases:

Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.

# 3. Composition/information on ingredients

# Chemical characterization (Mixture)

chemical characterization (preparation): Acrylate.-resin.

# 4. First aid measures

#### After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

#### After contact with skin

After contact with skin, wash immediately with: Water and soap.

### After contact with eyes

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

# After ingestion

Immediately get medical attention.

# 5. Fire-fighting measures

# Suitable extinguishing media

Water fog. Extinguishing powder. Sand. Foam. Carbon dioxide (CO2).

# Extinguishing media which must not be used for safety reasons

High power water jet.

# 6. Accidental release measures

#### **Personal precautions**

Wear suitable protective clothing. Provide adequate ventilation.

# **Environmental precautions**

Do not empty into drains or the aquatic environment.

#### Methods for cleaning up/taking up

Collect mechanically.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

according to Regulation (EU) No. 1907/2006

#### **TECO**

Print date: 31.08.2010 MSDS: 2222 Page 2 of 4

# 7. Handling and storage

#### Handling

#### Advice on safe handling

Keep container tightly closed. Wear suitable protective clothing and gloves. Avoid contact with eyes.

# **Storage**

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Store only in original container.

#### 8. Exposure controls/personal protection

#### **Exposure limit values**

#### **Exposure controls**

#### Occupational exposure controls

Ensure adequate ventilation of the storage area.

#### Protective and hygiene measures

When using do not eat or drink.

#### Respiratory protection

The following must be prevented: inhalation.

# **Hand protection**

Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber).

# Eye protection

Tightly sealed safety glasses.

## 9. Physical and chemical properties

# **General information**

Physical state: liquid
Colour: yellow
Odour: like: ester

# Important health, safety and environmental information

Test method

pH-Value (at 20 °C): 3,5

# Changes in the physical state

Boiling point: 100 °C point of decomposition: > 200 °C Flash point: > 100 °C Vapour pressure: 23 hPa

(at 20 °C)

Density: 1,1 g/cm³

Solubility in other solvents: Solubility ca. 50 %

Vapour density: > 1

# 10. Stability and reactivity

according to Regulation (EU) No. 1907/2006

#### **TECO**

Print date: 31.08.2010 MSDS: 2222 Page 3 of 4

#### Conditions to avoid

Light. heat.

#### Materials to avoid

Keep away from strong acids, leachates, heavy metal salts and reducing materials.

# Hazardous decomposition products

Can be released in case of fire: Gas / vapours, irritant. (Acrylate., pungent)

# 11. Toxicological information

#### **Acute toxicity**

LD50: Rat. 5500mg/kg

#### Corrosive and irritant effects

Frequently or prolonged contact with skin may cause dermal irritation.

Irritant effect on the eye: Frequently or prolonged contact with skin may cause dermal irritation.

#### Sensitising effects

May cause sensitization by skin contact.

#### Additional information on tests

Contains Methacrylates: May produce an allergic reaction. May cause sensitization by skin contact.

# 12. Ecological information

#### **Ecotoxicity**

Aquatoxicity LC50: > 360 mg / I / 48h

#### Persistence and degradability

Product is partially biodegradable. 50%

## **Further information**

Do not empty into drains or the aquatic environment. Leakage into the environment must be prevented.

# 13. Disposal considerations

#### Advice on disposal

Can be burnt together with household waste in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

Carry out a burning of harzardous waste according to official regulations.

#### Waste disposal number of waste from residues/unused products

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except

kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing dangerous substances

Classified as hazardous waste.

# 14. Transport information

# Other applicable information

Not a hazardous material with respect to these transportation regulations.

# 15. Regulatory information

# Labelling

Danger symbols: Xi - Irritant

according to Regulation (EU) No. 1907/2006

### **TECO**

Print date: 31.08.2010 MSDS: 2222 Page 4 of 4

# Hazardous components which must be listed on the label

Methacrylic esters.

R phrases

36/37/38 Irritating to eyes, respiratory system and skin.
43 May cause sensitization by skin contact.

S phrases

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

After contact with skin, wash immediately with plenty of Water and soap. .

# **National regulatory information**

Water contaminating class (D): 2 - water contaminating

# 16. Other information

#### Full text of R-phrases referred to under sections 2 and 3

36/37/38 Irritating to eyes, respiratory system and skin.43 May cause sensitization by skin contact.

# **Further Information**

-

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

according to Regulation (EC) No 1907/2006

# **Etching Gel**

Print date: 01.04.2014 Product code: 6100\_GHS Page 1 of 6

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

#### 1.1. Product identifier

**Etching Gel** 

Product group: Endprodukt

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

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

Company name: DMG Chemisch-Pharmazeutische Fabrik GmbH

Street: Elbgaustraße 248
Place: D-22547 Hamburg
Telephone: +49. (0) 40. 84006-0

Telephone: +49. (0) 40. 84006-0 Telefax: +49. (0) 40. 84006-222 e-mail: info@dmg-dental.com

e-mail: info@dmg-dental.com

Internet: www.dmg-dental.com

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

Indications of danger: C - Corrosive

R phrases: Causes burns.

#### **GHS** classification

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes severe skin burns and eye damage.

# 2.2. Label elements

# Hazardous components which must be listed on the label

Phosphoric acid ... %; orthophosphoric acid

Signal word: Danger Pictograms: GHS05



#### **Hazard statements**

H314 Causes severe skin burns and eye damage.

# **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **Chemical characterization**

PHOSPHORIC ACID

according to Regulation (EC) No 1907/2006

# Etching GelPrint date: 01.04.2014Product code: 6100\_GHSPage 2 of 6

#### **Hazardous components**

| EC No        | Chemical name                           | Quantity  |
|--------------|---|-----------|
| CAS No       | Classification                          |           |
| Index No     | GHS classification                      |           |
| REACH No     |   |           |
| 231-633-2    | Phosphoric acid %; orthophosphoric acid | 30 - 45 % |
| 7664-38-2    | C - Corrosive R34                       |           |
| 015-011-00-6 | Skin Corr. 1B; H314                     |           |

Full text of R and H phrases: see Section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### After inhalation

not applicable

#### After contact with skin

After contact with skin, wash immediately with: Water and soap.

#### After contact with eyes

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

#### After ingestion

Immediately get medical attention.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### **Additional information**

Material is not combustible.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing.

# 6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

#### 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).

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

#### Advice on safe handling

Keep container tightly closed. Wear suitable protective clothing and gloves. Avoid contact with eyes.

#### Further information on handling

Ensure adequate ventilation of the storage area.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Store only in original container.

# Advice on storage compatibility

Do not store together with: Alkalis (alkalis). metal.

according to Regulation (EC) No 1907/2006

# Etching Gel

Print date: 01.04.2014 Product code: 6100\_GHS Page 3 of 6

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

# **Exposure limits (EH40)**

| CAS No    | Substance            | ppm | mg/m³ | fibres/ml | Category      | Origin |
|-----------|----------------------|-----|-------|-----------|---------------|--------|
| 7664-38-2 | Orthophosphoric acid | -   | 1     |           | TWA (8 h)     | WEL    |
|           |                      | -   | 2     |           | STEL (15 min) | WEL    |

#### 8.2. Exposure controls



#### Protective and hygiene measures

When using do not eat or drink.

# Respiratory protection

The following must be prevented: inhalation. Exceeding critical value: Filter respirator (full mask or mouth-piece) with filter: A

# Hand protection

Wear suitable gloves.: NBR (Nitrile rubber). Butyl rubber.

#### Eye protection

Tightly sealed safety glasses.

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state: Jelly Colour: blue

Test method

pH-Value: ca. 1

Changes in the physical state

Boiling point: 100 °C
Flash point: not applicable
Lower explosion limits: not applicable

Upper explosion limits:

Ignition temperature: not applicable
Vapour pressure: 20 hPa

(at 23 °C)

Density: 1,4 g/cm³
Water solubility: easily soluble.
Vapour density: < 1

# **SECTION 10: Stability and reactivity**

# 10.5. Incompatible materials

Alkalis (alkalis).

according to Regulation (EC) No 1907/2006

# **Etching Gel**

Product code: 6100 GHS Print date: 01.04.2014 Page 4 of 6

#### **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

**Acute toxicity** 

LD50: Rat. >810mg/kg

Irritation and corrosivity

Irritant effect on the eye: Causes burns. After skin contact: Causes burns.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

| CAS No    | Chemical name                           |        |          |    |                  |        |  |
|-----------|---|--------|----------|----|------------------|--------|--|
|           | Aquatic toxicity                        | Method | Dose     | h  | Species          | Source |  |
| 7664-38-2 | Phosphoric acid %; orthophosphoric acid |        |          |    |                  |        |  |
|           | Acute fish toxicity                     | LC50   | 138 mg/l | 96 | Gambusia affinis |        |  |

#### **Further information**

Do not empty into drains or the aquatic environment. Leakage into the environment must be prevented.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

# Advice on disposal

Remove according to the regulations.

#### Waste disposal number of waste from residues/unused products

180106

WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing dangerous substances

Classified as hazardous waste.

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

14.1. UN number: 1805

PHOSPHORIC ACID SOLUTION 14.2. UN proper shipping name:

8 14.3. Transport hazard class(es): 14.4. Packing group: Ш Hazard label:



C1 Classification code: Limited quantity: 5 L Transport category: 3 80 Hazard No: Tunnel restriction code: Ε

according to Regulation (EC) No 1907/2006

# **Etching Gel**

Print date: 01.04.2014 Product code: 6100\_GHS Page 5 of 6

Other applicable information (land transport)

E1

Marine transport (IMDG)

**14.1. UN number:** 1805

14.2. UN proper shipping name: PHOSPHORSÄURE, LÖSUNG

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Special Provisions: 223
Limited quantity: 5 L
EmS: F-A, S-B

Other applicable information (marine transport)

E1

Air transport (ICAO)

**14.1. UN number:** 1805

14.2. UN proper shipping name: PHOSPHORSÄURE, LÖSUNG

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Special Provisions: A3
Limited quantity Passenger: 1 L

IATA-packing instructions - Passenger:852IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:856IATA-max. quantity - Cargo:60 L

Other applicable information (air transport)

E1 : Y841

14.5. Environmental hazards

Dangerous for the environment: no

# **SECTION 15: Regulatory information**

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

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

# **SECTION 16: Other information**

# Full text of R phrases referred to under Sections 2 and 3

34 Causes burns.

according to Regulation (EC) No 1907/2006

|                        | Etching Gel            |             |
|------------------------|------------------------|-------------|
| Print date: 01.04.2014 | Product code: 6100_GHS | Page 6 of 6 |

Full text of H statements referred to under Sections 2 and 3

H314 Causes severe skin burns and eye damage.

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

according to Regulation (EC) No 1907/2006

## Silan A

Print date: 01.04.2014 Product code: 6125\_GHS Page 1 of 6

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

#### 1.1. Product identifier

Silan A

 Product group:
 Endprodukt

 CAS No:
 64-17-5

 Index No:
 603-002-00-5

 EC No:
 200-578-6

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

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

Company name: DMG Chemisch-Pharmazeutische Fabrik GmbH

Street: Elbgaustraße 248
Place: D-22547 Hamburg
Telephone: +49. (0) 40. 84006-0

Telephone: +49. (0) 40. 84006-0 Telefax: +49. (0) 40. 84006-222

e-mail: info@dmg-dental.com Internet: www.dmg-dental.com

#### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

Indications of danger: F - Highly flammable

R phrases: Highly flammable.

#### **GHS** classification

Hazard Statements:

Highly flammable liquid and vapour.

# 2.2. Label elements

Signal word: Danger Pictograms: GHS02



# **Hazard statements**

H225 Highly flammable liquid and vapour.

# **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### Chemical characterization

Ethanol.

according to Regulation (EC) No 1907/2006

# Silan A

Print date: 01.04.2014 Product code: 6125\_GHS Page 2 of 6

#### **Hazardous components**

| EC No        | Chemical name                           | Quantity  |
|--------------|---|-----------|
| CAS No       | Classification                          |           |
| Index No     | GHS classification                      |           |
| REACH No     |   |           |
| 200-578-6    | ethanol, ethyl alcohol                  | 65 - 75 % |
| 64-17-5      | F - Highly flammable R11                |           |
| 603-002-00-5 | Flam. Liq. 2; H225                      |           |
| 231-633-2    | Phosphoric acid %; orthophosphoric acid | < 5 %     |
| 7664-38-2    | C - Corrosive R34                       |           |
| 015-011-00-6 | Skin Corr. 1B; H314                     |           |

Full text of R and H phrases: see Section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

#### After contact with skin

After contact with skin, wash immediately with: Water and soap. Change contaminated clothing.

#### After contact with eyes

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

#### After ingestion

If swallowed, immediately drink: Water. Consult physician.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Atomized water. alcohol resistant foam. Carbon dioxide (CO2). Extinguishing powder. Sand.

#### Extinguishing media which must not be used for safety reasons

High power water jet.

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

Concentrated vapors are heavier than air. Vapours may form explosive mixtures with air.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition - No smoking.

The following must be prevented: inhalation. skin contact. Eye contact.

#### 6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

#### 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).

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

according to Regulation (EC) No 1907/2006

#### Silan A

Print date: 01.04.2014 Product code: 6125\_GHS Page 3 of 6

# Advice on safe handling

Keep away from sources of ignition - No smoking. Provide adequate ventilation.

# 7.2. Conditions for safe storage, including any incompatibilities

# Requirements for storage rooms and vessels

Keep in a cool place.

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

#### **Exposure limits (EH40)**

| CAS No    | Substance            | ppm  | mg/m³ | fibres/ml | Category      | Origin |
|-----------|----------------------|------|-------|-----------|---------------|--------|
| 64-17-5   | Ethanol              | 1000 | 1920  |           | TWA (8 h)     | WEL    |
|           |                      | -    | -     |           | STEL (15 min) | WEL    |
| 7664-38-2 | Orthophosphoric acid | -    | 1     |           | TWA (8 h)     | WEL    |
|           |                      | -    | 2     |           | STEL (15 min) | WEL    |

# 8.2. Exposure controls









# Protective and hygiene measures

When using do not eat or drink.

#### Respiratory protection

The following must be prevented: inhalation. Exceeding critical value: Filter respirator (full mask or mouth-piece) with filter: A

#### Hand protection

Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber).

#### Eye protection

Tightly sealed safety glasses.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: liquid

Colour: colourless-transparent

Odour: characteristic

Test method

pH-Value: ca. 5

Changes in the physical state

Boiling point: ca. 80 °C Flash point: 12 °C Water solubility: complete miscible

# **SECTION 10: Stability and reactivity**

#### 10.4. Conditions to avoid

heat.

according to Regulation (EC) No 1907/2006

#### Silan A

Print date: 01.04.2014 Product code: 6125\_GHS Page 4 of 6

#### 10.5. Incompatible materials

Oxidizing agents. Alkali metals.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

#### **Acute toxicity**

| CAS No  | Chemical name           |        |            |         |        |  |  |
|---------|-------------------------|--------|------------|---------|--------|--|--|
|         | Exposure routes         | Method | Dose       | Species | Source |  |  |
| 64-17-5 | ethanol, ethyl alcohol  |        |            |         |        |  |  |
|         | oral                    | LD50   | 6200 mg/kg | Rat     | IUCLID |  |  |
|         | inhalative (4 h) vapour | LC50   | 95,6 mg/l  | Rat     | RTECS  |  |  |

#### Irritation and corrosivity

In case of prolonged or frequently repeated skin contact: irritant.; Following eye contact: irritant.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Acute fish toxicity (Leuciscus idus): LC50: > 8140 mg / I / 48 h (Ethanol); Acute Daphnia toxicity (Daphnia magna): EC50: 9268 - 14221 mg / I / 48 h

| CAS No    | Chemical name                           |              |              |    |                  |        |
|-----------|---|--------------|--------------|----|------------------|--------|
|           | Aquatic toxicity                        | Method       | Dose         | h  | Species          | Source |
| 64-17-5   | ethanol, ethyl alcohol                  |              |              |    |                  |        |
|           | Acute crustacea toxicity                | EC50<br>mg/l | 9268 - 14221 | 48 | Daphnia magna    | IUCLID |
| 7664-38-2 | Phosphoric acid %; orthophosphoric acid |              |              |    |                  |        |
|           | Acute fish toxicity                     | LC50         | 138 mg/l     | 96 | Gambusia affinis |        |

#### 12.2. Persistence and degradability

Easily biodegradable (concerning to the criteria of the OECD)

# 12.3. Bioaccumulative potential

# Partition coefficient n-octanol/water

| CAS No  | Chemical name          | Log Pow |
|---------|------------------------|---------|
| 64-17-5 | ethanol, ethyl alcohol | -0,31   |

#### **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

# Advice on disposal

Remove according to the regulations.

# Waste disposal number of waste from residues/unused products

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except

kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing

dangerous substances

Classified as hazardous waste.

# **SECTION 14: Transport information**

according to Regulation (EC) No 1907/2006

|                        | Silan A                |             |
|------------------------|------------------------|-------------|
| Print date: 01.04.2014 | Product code: 6125_GHS | Page 5 of 6 |

# Land transport (ADR/RID)

**14.1. UN number:** 1170

14.2. UN proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1
Special Provisions: 144 601
Limited quantity: 1 L
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

# Other applicable information (land transport)

E2

#### Marine transport (IMDG)

**14.1. UN number:** 1170

**14.2. UN** proper shipping name: ETHANOL, LÖSUNG (ETHYLALKOHOL, LÖSUNG)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions: 144
Limited quantity: 3 L
EmS: F-E, S-D

#### Other applicable information (marine transport)

E2

#### Air transport (ICAO)

**14.1. UN number:** 1170

14.2. UN proper shipping name: ETHANOL, LÖSUNG (ETHYLALKOHOL, LÖSUNG)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions: A3 Limited quantity Passenger: 1 L

IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

according to Regulation (EC) No 1907/2006

#### Silan A

Print date: 01.04.2014 Product code: 6125\_GHS Page 6 of 6

Other applicable information (air transport)

E2 : Y341

14.5. Environmental hazards

Dangerous for the environment: no

# **SECTION 15: Regulatory information**

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

**National regulatory information** 

# **SECTION 16: Other information**

# Full text of R phrases referred to under Sections 2 and 3

Highly flammable.Causes burns.

# Full text of H statements referred to under Sections 2 and 3

H225 Highly flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

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

according to Regulation (EC) No 1907/2006

#### Silan B

Print date: 01.04.2014 Product code: 6126\_GHS Page 1 of 4

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

#### 1.1. Product identifier

Silan B

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

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

Company name: DMG Chemisch-Pharmazeutische Fabrik GmbH

Street: Elbgaustraße 248
Place: D-22547 Hamburg

Telephone: +49. (0) 40. 84006-0 Telefax: +49. (0) 40. 84006-222

e-mail: info@dmg-dental.com Internet: www.dmg-dental.com

#### **SECTION 2: Hazards identification**

#### 2.2. Label elements

Signal word: Warning Pictograms: GHS07



#### **Hazard statements**

H335 May cause respiratory irritation.
H319 Causes serious eye irritation.
H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

**Precautionary statements** 

P337+P313 If eye irritation persists: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

#### **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

#### **Chemical characterization**

Silane

#### **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

# After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

#### After contact with skin

After contact with skin, wash immediately with: Water and soap.

# After contact with eyes

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

#### After ingestion

Immediately get medical attention.

according to Regulation (EC) No 1907/2006

#### Silan B

Print date: 01.04.2014 Product code: 6126\_GHS Page 2 of 4

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

# Suitable extinguishing media

Water fog. Extinguishing powder. Sand. Foam. Carbon dioxide (CO2).

### Extinguishing media which must not be used for safety reasons

High power water jet.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing. Provide adequate ventilation.

# 6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

# 6.3. Methods and material for containment and cleaning up

Collect mechanically.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Keep container tightly closed. Wear suitable protective clothing and gloves. Avoid contact with eyes.

# 7.2. Conditions for safe storage, including any incompatibilities

# Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Store only in original container.

#### **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# 8.2. Exposure controls



#### Occupational exposure controls

Ensure adequate ventilation of the storage area.

#### Protective and hygiene measures

When using do not eat or drink.

# Respiratory protection

The following must be prevented: inhalation.

#### Hand protection

Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber).

#### Eye protection

Tightly sealed safety glasses.

according to Regulation (EC) No 1907/2006

#### Silan B

Print date: 01.04.2014 Product code: 6126\_GHS Page 3 of 4

#### **SECTION 9: Physical and chemical properties**

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

Physical state: liquid

Colour: colourless - yellow Odour: characteristic

Test method

Changes in the physical state

Boiling point: 250 °C
Flash point: 110 °C
Density: 1.04 g/cm³
Water solubility: not miscible
Vapour density: > 1

# **SECTION 10: Stability and reactivity**

#### 10.4. Conditions to avoid

heat.

# 10.5. Incompatible materials

Keep away from strong acids, leachates, heavy metal salts and reducing materials.

# 10.6. Hazardous decomposition products

Can be released in case of fire: Gas / vapours, irritant. (Acrylate., pungent)

Decomposition under formation of: Methanol.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

# **Acute toxicity**

LD50: (Rat): > 5000 mg/kg

Frequently or prolonged contact with skin may cause dermal irritation.

#### Irritation and corrosivity

Frequently or prolonged contact with skin may cause dermal irritation.

Irritant effect on the eye:

# Sensitising effects

May cause sensitization by skin contact.

## Additional information on tests

May produce an allergic reaction.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Aquatoxicity:

LC50: (Brachydanio rerio): > 1024 mg/l/96h

# 12.2. Persistence and degradability

Product is partially biodegradable.

#### **Further information**

Do not empty into drains or the aquatic environment. Leakage into the environment must be prevented.

# **SECTION 13: Disposal considerations**

according to Regulation (EC) No 1907/2006

#### Silan B

Print date: 01.04.2014 Product code: 6126\_GHS Page 4 of 4

#### 13.1. Waste treatment methods

#### Advice on disposal

Can be burnt together with household waste in compliance with official regulations in contact with

approved waste disposal companies and with authorities in charge.

Paste: Carry out a burning of harzardous waste according to official regulations.

# Waste disposal number of waste from residues/unused products

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except

kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing

dangerous substances

Classified as hazardous waste.

# **SECTION 14: Transport information**

# Other applicable information

Not a hazardous material with respect to these transportation regulations.

# **SECTION 15: Regulatory information**

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

# National regulatory information

Water contaminating class (D): 2 - water contaminating

## **SECTION 16: Other information**

# Full text of R phrases referred to under Sections 2 and 3

36/37/38 Irritating to eyes, respiratory system and skin.43 May cause sensitisation by skin contact.

#### Full text of H statements referred to under Sections 2 and 3

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.

## **Further Information**

# Vitique

Product code: 21380, 21381, 213082 (GHS\_1040) Page 1 of 5

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

#### 1.1. Product identifier

Vitique Veneer System: 213080. Vitique Silane Adhesive: 213081. Vitique Veneer Accessory Kit: 213082.

Vitique Base Refill Syringe: 213038, 213039, 213040, 213041, 213042, 213043, 213044, 213045 Vitique Try-In Refill Syringe: 213048, 213049, 21350, 213051, 213052, 213053, 213054, 213055

Vitique Accessory: 213057, 21058

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

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

Company Name: DMG AMERICA LLC Address: 242 South Dean Street Englewood, NJ. 07631

Telephone No.: (800) 662 - 6383 Email: info@dmg-america.com Website: www.dmg-america.com SDS Emergency No. INFOTRAC (800) 535 - 5053

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Serious eye damage/eye irritation: Eye Dam. 1 Respiratory/skin sensitization: Skin Sens. 1

Hazard Statements:

Causes serious eye damage. May cause an allergic skin reaction.

# 2.2. Label elements

Signal word: Danger
Pictograms: GHS05-GHS07





#### **Hazard statements**

H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.

#### **Precautionary statements**

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **Chemical characterization**

chemical characterization (preparation): Acrylate.-resin.

#### **Vitique**

Product code: 21380, 21381, 213082 (GHS\_1040)

Page 2 of 5

#### **Hazardous components**

| EC No     | Chemical name   | Quantity  |
|-----------|---|-----------|
| CAS No    | Classification according to Directive 67/548/EEC                |           |
| Index No  | Classification according to Regulation (EC) No. 1272/2008 [CLP] |           |
| REACH No  |   |           |
|           | Bis-GMA   | 25 - 35 % |
| 1565-94-2 | Xi - Irritant R41-43  |           |
|           |   |           |

Full text of R-, H- and EUH-phrases: see section 16.

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

#### After contact with skin

After contact with skin, wash immediately with: Water and soap.

#### After contact with eyes

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

#### After ingestion

Immediately get medical attention.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Water fog. Extinguishing powder. Sand. Foam. Carbon dioxide (CO2).

#### Unsuitable extinguishing media

High power water jet.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear suitable protective clothing.

#### 6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

# 6.3. Methods and material for containment and cleaning up

Collect mechanically.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

## Advice on safe handling

Keep container tightly closed. Wear suitable protective clothing and gloves. Avoid contact with eyes.

## 7.2. Conditions for safe storage, including any incompatibilities

# Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Store only in original container.

#### Vitique

Product code: 21380, 21381, 213082 (GHS 1040)

Page 3 of 5

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

# 8.2. Exposure controls



#### Protective and hygiene measures

Take off immediately all contaminated clothing. When using do not eat or drink.

#### Eye/face protection

Tightly sealed safety glasses.

#### Hand protection

Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber).

#### Respiratory protection

The following must be prevented: inhalation.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: Paste
Colour: yellow
Odour: like: ester

Test method

pH-Value: 2.5

Changes in the physical state

Initial boiling point and boiling range: >200 °C

Decomposition temperature: >60 °C

Vapour pressure: 1 hPa

(at 20 °C)

Density: 1.9 g/cm³
Water solubility: 5% g/L
(at 20 °C)

Vapour density: > 1

# **SECTION 10: Stability and reactivity**

# 10.4. Conditions to avoid

heat. Light.

Decompostion takes place from temperatures above: 60 °C

# 10.5. Incompatible materials

radical former. Keep away from strong acids, leachates, heavy metal salts and reducing materials.

#### 10.6. Hazardous decomposition products

Can be released in case of fire: Gas / vapours, irritant. (Acrylate., pungent)

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

# ATEmix tested

#### Vitique

Product code: 21380, 21381, 213082 (GHS 1040)

Page 4 of 5

Dose

**Species** 

Source

LD50, oral

> 10000 mg/kg

Rat.

calculated.

#### Irritation and corrosivity

Irritant effect on the eye: strong irritant. Risk of serious damage to eyes.

# Sensitising effects

May cause sensitization by skin contact.

#### Severe effects after repeated or prolonged exposure

No data available

# Carcinogenic/mutagenic/toxic effects for reproduction

No data available

#### Additional information on tests

Contains Methacrylic esters.: May produce an allergic reaction.

# **SECTION 12: Ecological information**

#### 12.2. Persistence and degradability

Do not empty into drains or the aquatic environment. Leakage into the environment must be prevented. Preparation not tested.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Advice on disposal

Can be burnt together with household waste in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

Paste: Carry out a burning of harzardous waste according to official regulations.

# Waste disposal number of waste from residues/unused products

180106

WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing dangerous substances

Classified as hazardous waste.

# **SECTION 14: Transport information**

# Other applicable information

Not a hazardous material with respect to these transportation regulations.

# **SECTION 15: Regulatory information**

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

# **National regulatory information**

Water contaminating class (D): 2 - water contaminating

#### **SECTION 16: Other information**

#### Relevant R-phrases (Number and full text)

41 Risk of serious damage to eyes.

43 May cause sensitisation by skin contact.

# Relevant H- and EUH-phrases (Number and full text)

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

# Vitique

Product code: 21380, 21381, 213082 (GHS\_1040)

Page 5 of 5

**Further Information** 

(The data for the hazardous ingredients were taken respectively from the last version 04/15/2016 of the sub-contractor's safety data sheet.)

# **ETCHING GEL**

(GHS\_6100)

Page 1 of 6

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

#### 1.1. Product identifier

EtchingGel

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

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

Company Name: DMG AMERICA LLC
Address: 242 South Dean St

Englewood, NJ. 07631

Telephone No.: (800) 662 - 6383 SDS Emergency No. INFOTRAC (800) 535 - 5053

Email: Info@dmg-america.com
Website: www.dmg-america.com

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# Classification according to Directive 67/548/EEC or 1999/45/EC

This mixture is not classified as hazardous according to Directive 1999/45/EC.

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1B

Hazard Statements:

May be corrosive to metals.

Causes severe skin burns and eye damage.

# 2.2. Label elements

# Hazardous components which must be listed on the label

Phosphoric acid ... %; orthophosphoric acid

Signal word: Danger Pictograms: GHS05



# **Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

## **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

# **Chemical characterization**

PHOSPHORIC ACID

# **ETCHING GEL**

(GHS 6100)

Page 2 of 6

#### **Hazardous components**

| EC No        | Chemical name   | Quantity  |
|--------------|---|-----------|
| CAS No       | Classification according to Directive 67/548/EEC                |           |
| Index No     | Classification according to Regulation (EC) No. 1272/2008 [CLP] |           |
| REACH No     |   |           |
| 231-633-2    | Phosphoric acid %; orthophosphoric acid                         | 30 - 45 % |
| 7664-38-2    | C - Corrosive R34   |           |
| 015-011-00-6 | Skin Corr. 1B; H314   |           |

Full text of R-, H- and EUH-phrases: see section 16.

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### After inhalation

not applicable

#### After contact with skin

After contact with skin, wash immediately with: Water and soap.

#### After contact with eyes

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

#### After ingestion

Immediately get medical attention.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

# Additional information

Material is not combustible.

# **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing.

# 6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

# 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).

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

#### Advice on safe handling

Keep container tightly closed. Wear suitable protective clothing and gloves. Avoid contact with eyes.

# Further information on handling

Ensure adequate ventilation of the storage area.

# 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Store only in original container.

## Advice on storage compatibility

Do not store together with: Alkalis (alkalis). metal.

# **ETCHING GEL**

(GHS\_6100)

Page 3 of 6

#### **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# **Exposure limits (EH40)**

| CAS No    | Substance            | ppm | mg/m³ | fibres/ml | Category      | Origin |
|-----------|----------------------|-----|-------|-----------|---------------|--------|
| 7664-38-2 | Orthophosphoric acid |     | 1     |           | TWA (8 h)     | WEL    |
|           |                      | -   | 2     |           | STEL (15 min) | WEL    |

#### 8.2. Exposure controls



# Protective and hygiene measures

When using do not eat or drink.

#### Eye/face protection

Tightly sealed safety glasses.

#### Hand protection

Wear suitable gloves.: NBR (Nitrile rubber). Butyl rubber.

# Respiratory protection

The following must be prevented: inhalation. Exceeding critical value: Filter respirator (full mask or mouth-piece) with filter: A

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: Jelly Colour: blue

Test method

pH-Value: ca. 1

Changes in the physical state

Initial boiling point and boiling range: 100 °C Flash point: not applicable Lower explosion limits: not applicable

Upper explosion limits:

Ignition temperature: not applicable
Vapour pressure: 20 hPa

(at 23 °C)

Density: 1,4 g/cm³
Water solubility: easily soluble.
Vapour density: < 1

# **SECTION 10: Stability and reactivity**

### 10.5. Incompatible materials

Alkalis (alkalis).

# **ETCHING GEL**

(GHS 6100) Page 4 of 6

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

**Acute toxicity** 

LD50: Rat. >810mg/kg

Irritation and corrosivity

Irritant effect on the eye: Causes burns. After skin contact: Causes burns.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

| CAS No    | Chemical name                           |        |          |           |                  |        |  |  |  |
|-----------|---|--------|----------|-----------|------------------|--------|--|--|--|
|           | Aquatic toxicity                        | Method | Dose     | [h]   [d] | Species          | Source |  |  |  |
| 7664-38-2 | Phosphoric acid %; orthophosphoric acid |        |          |           |                  |        |  |  |  |
|           | Acute fish toxicity                     | LC50   | 138 mg/l | 96 h      | Gambusia affinis |        |  |  |  |

#### **Further information**

Do not empty into drains or the aquatic environment. Leakage into the environment must be prevented.

#### **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

#### Advice on disposal

Remove according to the regulations.

#### Waste disposal number of waste from residues/unused products

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except

> kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing

dangerous substances

Classified as hazardous waste.

#### **SECTION 14: Transport information**

# Land transport (ADR/RID)

UN 1805 14.1. UN number:

14.2. UN proper shipping name: PHOSPHORIC ACID SOLUTION

8

14.3. Transport hazard class(es): 14.4. Packing group: Ш Hazard label: 8



Classification code: Limited quantity: 5 L Transport category: 3 Hazard No: 80 Tunnel restriction code:

#### Other applicable information (land transport)

# **ETCHING GEL**

(GHS\_6100) Page 5 of 6

Marine transport (IMDG)

**14.1. UN number:** UN 1805

14.2. UN proper shipping name: PHOSPHORIC ACID SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8

8

Special Provisions: 223
Limited quantity: 5 L
EmS: F-A, S-B

Other applicable information (marine transport)

E,

Air transport (ICAO)

**14.1. UN number:** UN 1805

14.2. UN proper shipping name: PHOSPHORIC ACID SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8

8



Special Provisions: A3

Limited quantity Passenger: 1 L

IATA-packing instructions - Passenger: 852
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 856
IATA-max. quantity - Cargo: 60 L

Other applicable information (air transport)

E1 : Y841

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

# **SECTION 15: Regulatory information**

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

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

#### **SECTION 16: Other information**

# Relevant R-phrases (Number and full text)

34 Causes burns.

#### Relevant H- and EUH-phrases (Number and full text)

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

# **ETCHING GEL**

(GHS\_6100)

Page 6 of 6

(The data for the hazardous ingredients were taken respectively from the last version 04/13/2016 of the sub-contractor's safety data sheet.)

**TECO** 

(GHS\_2222) Page 1 of 5

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

#### 1.1. Product identifier

**TECO** 

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

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

Company Name: DMG AMERICA LLC
Address: 242 South Dean Street
Englewood, NJ. 07631

Telephone No.: (800) 662 - 6383 SDS Emergency No. INFOTRAC (800) 535 - 5053

Email: info@dmg-america.com Website: www.dmg-america.com

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories:

Serious eye damage/eye irritation: Eye Dam. 1 Respiratory or skin sensitisation: Skin Sens. 1

Hazard Statements:

May cause respiratory irritation.
Causes serious eye damage.
May cause an allergic skin reaction.

#### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

Signal word: Danger

Pictograms:





#### **Hazard statements**

H335 May cause respiratory irritation.
 H318 Causes serious eye damage.
 H317 May cause an allergic skin reaction.

#### **Precautionary statements**

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P313 Get medical advice/attention.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

#### **Chemical characterization**

chemical characterization (preparation): Acrylate.-resin.

#### **TECO**

(GHS 2222)

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#### **Hazardous components**

| CAS No    | Chemical name   |         |  |  |  |  |  |
|-----------|---|---------|--|--|--|--|--|
|           | EC No Index No REACH No   |         |  |  |  |  |  |
|           | Classification according to Regulation (EC) No. 1272/2008 [CLP] |         |  |  |  |  |  |
| 1565-94-2 | Bis-GMA   | Bis-GMA |  |  |  |  |  |
|           |   |         |  |  |  |  |  |
|           |   |         |  |  |  |  |  |

Full text of H and EUH statements: see section 16.

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

#### After contact with skin

After contact with skin, wash immediately with: Water and soap.

#### After contact with eyes

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

#### After ingestion

Immediately get medical attention.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Water fog. Extinguishing powder. Sand. Foam. Carbon dioxide (CO2).

## Unsuitable extinguishing media

High power water jet.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing. Provide adequate ventilation.

#### 6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

#### 6.3. Methods and material for containment and cleaning up

Collect mechanically.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Keep container tightly closed. Wear suitable protective clothing and gloves. Avoid contact with eyes.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Store only in original container.

#### **SECTION 8: Exposure controls/personal protection**

#### **TECO**

(GHS\_2222)

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#### 8.1. Control parameters

#### 8.2. Exposure controls



### Appropriate engineering controls

Ensure adequate ventilation of the storage area.

#### Protective and hygiene measures

When using do not eat or drink.

#### Eye/face protection

Tightly sealed safety glasses.

#### Hand protection

Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber).

#### Respiratory protection

The following must be prevented: inhalation.

## **SECTION 9: Physical and chemical properties**

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

Physical state: liquid
Colour: yellow
Odour: like: ester

**Test method** 

pH-Value (at 20 °C): 4.5 - 7

Changes in the physical state

Initial boiling point and boiling range:  $100 \, ^{\circ}\text{C}$  point of decomposition:  $> 200 \, ^{\circ}\text{C}$  Flash point:  $> 100 \, ^{\circ}\text{C}$  Vapour pressure:  $23 \, \text{hPa}$ 

(at 20 °C)

Density: 1,1 g/cm³

Solubility in other solvents

Solubility ca. 50 %

Vapour density: > 1

## **SECTION 10: Stability and reactivity**

#### 10.4. Conditions to avoid

Light. heat.

#### 10.5. Incompatible materials

Keep away from strong acids, leachates, heavy metal salts and reducing materials.

## 10.6. Hazardous decomposition products

Can be released in case of fire: Gas / vapours, irritant. (Acrylate., pungent)

#### **Further information**

Substances sensitive to light.

## **SECTION 11: Toxicological information**

#### **TECO**

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#### 11.1. Information on toxicological effects

#### Acute toxicity

LD50: Rat. 5500mg/kg

## Irritation and corrosivity

Frequently or prolonged contact with skin may cause dermal irritation.

Irritant effect on the eye: Frequently or prolonged contact with skin may cause dermal irritation.

#### Sensitising effects

May cause sensitization by skin contact.

#### Additional information on tests

Contains Methacrylates: May produce an allergic reaction. May cause sensitization by skin contact.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Aquatoxicity LC50: > 360 mg / I / 48h

#### 12.2. Persistence and degradability

Product is partially biodegradable. 50%

#### **Further information**

Do not empty into drains or the aquatic environment. Leakage into the environment must be prevented.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Advice on disposal

Can be burnt together with household waste in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

Carry out a burning of harzardous waste according to official regulations.

#### Waste disposal number of waste from residues/unused products

180106

WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing hazardous substances

Classified as hazardous waste.

#### **SECTION 14: Transport information**

## Other applicable information

Not a hazardous material with respect to these transportation regulations.

#### **SECTION 15: Regulatory information**

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

### National regulatory information

Water contaminating class (D): - - not water contaminating

#### **SECTION 16: Other information**

#### Relevant H and EUH statements (number and full text)

H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.

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#### **Further Information**

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(The data for the hazardous ingredients were taken respectively from the last version 04/14/2016 of the sub-contractor's safety data sheet.)

## Vitique Silane A

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SDS Emergency No. INFOTRAC (800) 535 - 5053

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

#### 1.1. Product identifier

Vitique Silane A

Product group: Endprodukt

CAS No: 64-17-5

Index No: 603-002-00-5 EC

No: 200-578-6

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

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

Company Name: DMG AMERICA LLC
Address: 242 South Dean Street
City, State, Zip Code: Englewood NJ. 07631
Telephone No.: (800) 662 - 6383

Email: Info@dmg-america.com Website: www.dmg-america.com

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification according to Directive 67/548/EEC or 1999/45/EC

This mixture is not classified as hazardous according to Directive 1999/45/EC.

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Flammable liquid: Flam. Liq. 2 Skin corrosion/irritation: Skin Corr. 1B

Hazard Statements:

Highly flammable liquid and vapour.

Causes skin irritation.

### 2.2. Label elements

Signal word: Danger Pictograms: GHS02



#### **Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

#### **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

### **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

#### **Chemical characterization**

Ethanol.

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### **Hazardous components**

| EC No        | Chemical name   | Quantity  |
|--------------|---|-----------|
| CAS No       | Classification according to Directive 67/548/EEC                |           |
| Index No     | Classification according to Regulation (EC) No. 1272/2008 [CLP] |           |
| REACH No     |   |           |
| 200-578-6    | ethanol, ethyl alcohol  | 65 - 75 % |
| 64-17-5      | F - Highly flammable R11  |           |
| 603-002-00-5 | Flam. Liq. 2; H225  |           |
| 231-633-2    | Phosphoric acid %; orthophosphoric acid                         | < 5 %     |
| 7664-38-2    | C - Corrosive R34   |           |
| 015-011-00-6 | Skin Corr. 1B; H314   |           |

Full text of R-, H- and EUH-phrases: see section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

#### After contact with skin

After contact with skin, wash immediately with: Water and soap. Change contaminated clothing.

#### After contact with eyes

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

#### After ingestion

If swallowed, immediately drink: Water. Consult physician.

#### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

## Suitable extinguishing media

Atomized water. alcohol resistant foam. Carbon dioxide (CO2). Extinguishing powder. Sand.

### Unsuitable extinguishing media

High power water jet.

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

Concentrated vapors are heavier than air. Vapours may form explosive mixtures with air.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

## **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition - No smoking.

The following must be prevented: inhalation. skin contact. Eye contact.

#### 6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

#### 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).

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

## Vitique Silane A

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#### Advice on safe handling

Keep away from sources of ignition - No smoking. Provide adequate ventilation.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep in a cool place.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Exposure limits (EH40)**

| CAS No    | Substance            | ppm  | mg/m³ | fibres/ml | Category      | Origin |
|-----------|----------------------|------|-------|-----------|---------------|--------|
| 64-17-5   | Ethanol              | 1000 | 1920  |           | TWA (8 h)     | WEL    |
|           |                      | -    | -     |           | STEL (15 min) | WEL    |
| 7664-38-2 | Orthophosphoric acid | -    | 1     |           | TWA (8 h)     | WEL    |
|           |                      | -    | 2     |           | STEL (15 min) | WEL    |

#### 8.2. Exposure controls









## Protective and hygiene measures

When using do not eat or drink.

### Eye/face protection

Tightly sealed safety glasses.

#### **Hand protection**

Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber).

## **Respiratory protection**

The following must be prevented: inhalation. Exceeding critical value: Filter respirator (full mask or mouth-piece) with filter: A

## **SECTION 9: Physical and chemical properties**

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

Physical state: liquid

Colour: colourless-transparent

Odour: characteristic

Test method

pH-Value: ca. 5

Changes in the physical state

Initial boiling point and boiling range:

Ca. 80 °C

Flash point:

12 °C

Water solubility:

complete miscible

#### **SECTION 10: Stability and reactivity**

#### 10.4. Conditions to avoid

heat.

## Vitique Silane A

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#### 10.5. Incompatible materials

Oxidizing agents. Alkali metals.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### **Acute toxicity**

| CAS No  | Chemical name           |        |            |         |        |  |
|---------|-------------------------|--------|------------|---------|--------|--|
|         | Exposure routes         | Method | Dose       | Species | Source |  |
| 64-17-5 | ethanol, ethyl alcohol  |        |            |         |        |  |
|         | oral                    |        | 6200 mg/kg | Rat     | IUCLID |  |
|         | inhalative (4 h) vapour | LC50   | 95,6 mg/l  | Rat     | RTECS  |  |

#### Irritation and corrosivity

In case of prolonged or frequently repeated skin contact: irritant.; Following eye contact: irritant.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Acute fish toxicity (Leuciscus idus): LC50: > 8140 mg / I / 48 h (Ethanol); Acute Daphnia toxicity (Daphnia magna): EC50: 9268 - 14221 mg / I / 48 h

| CAS No    | Chemical name                           |              |              |           |                  |        |  |  |
|-----------|---|--------------|--------------|-----------|------------------|--------|--|--|
|           | Aquatic toxicity                        | Method       | Dose         | [h]   [d] | Species          | Source |  |  |
| 64-17-5   | ethanol, ethyl alcohol                  |              |              |           |                  |        |  |  |
|           | Acute crustacea toxicity                | EC50<br>mg/l | 9268 - 14221 | 48 h      | Daphnia magna    | IUCLID |  |  |
| 7664-38-2 | Phosphoric acid %; orthophosphoric acid |              |              |           |                  |        |  |  |
|           | Acute fish toxicity                     | LC50         | 138 mg/l     | 96 h      | Gambusia affinis |        |  |  |

#### 12.2. Persistence and degradability

Easily biodegradable (concerning to the criteria of the OECD)

### 12.3. Bioaccumulative potential

## Partition coefficient n-octanol/water

| CAS No  | Chemical name          | Log Pow |
|---------|------------------------|---------|
| 64-17-5 | ethanol, ethyl alcohol | -0,31   |

### **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

#### Advice on disposal

Remove according to the regulations.

### Waste disposal number of waste from residues/unused products

180106

WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing dangerous substances

Classified as hazardous waste.

## **SECTION 14: Transport information**

## Vitique Silane A

(GHS\_6125)

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#### Land transport (ADR/RID)

**14.1. UN number:** UN 1170

14.2. UN proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1
Special Provisions: 144 601
Limited quantity: 1 L
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

## Other applicable information (land transport)

E2

#### Marine transport (IMDG)

**14.1. UN number:** UN 1170

14.2. UN proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions: 144
Limited quantity: 3 L
EmS: F-E, S-D

#### Other applicable information (marine transport)

F2

#### Air transport (ICAO)

**14.1. UN number:** UN 1170

14.2. UN proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions: A3
Limited quantity Passenger: 1 L

IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

## Vitique Silane A

(GHS\_6125)

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Other applicable information (air transport)

E2 : Y341

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

#### **SECTION 15: Regulatory information**

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

**National regulatory information** 

## **SECTION 16: Other information**

#### Relevant R-phrases (Number and full text)

Highly flammable.Causes burns.

#### Relevant H- and EUH-phrases (Number and full text)

H225 Highly flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

(The data for the hazardous ingredients were taken respectively from the last version 01/13/2016 of the sub-contractor's safety data sheet.)

## Vitique Silane B

(GHS 6126)

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

#### 1.1. Product identifier

Vitique Silane B

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

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

Company Name: DMG AMERICA LLC
Address: 242 South Dean Street
City, State, Zip code: Englewood, NJ. 07631

Telephone No.: (800) 662 - 6383 SDS Emergency No. INFOTRAC (800) 535 - 5053

Email: Info@dmg-america.com Website: www.dmg-america.com

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification according to Directive 67/548/EEC or 1999/45/EC

This substance is not classified as hazardous according to Directive 67/548/EEC.

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

This substance is not classified as hazardous according to Regulation (EC) No. 1272/2008.

#### 2.2. Label elements

Signal word: Warning

**Precautionary statements** 

P337+P313 If eye irritation persists: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P302+P352 IF ON SKIN: Wash with plenty of water.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

#### **Chemical characterization**

METHACRYLOYL PROPYLTRIMETHOXYSILANE (100%)

CAS: 2530-85-0

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

#### After contact with skin

After contact with skin, wash immediately with: Water and soap.

#### After contact with eyes

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

#### After ingestion

Immediately get medical attention.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

## Vitique Silane B

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#### Suitable extinguishing media

Water fog. Extinguishing powder. Sand. Foam. Carbon dioxide (CO2).

#### Unsuitable extinguishing media

High power water jet.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing. Provide adequate ventilation.

#### 6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

#### 6.3. Methods and material for containment and cleaning up

Collect mechanically.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Keep container tightly closed. Wear suitable protective clothing and gloves. Avoid contact with eyes.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Store only in original container.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### 8.2. Exposure controls



### Appropriate engineering controls

Ensure adequate ventilation of the storage area.

## Protective and hygiene measures

When using do not eat or drink.

### Eye/face protection

Tightly sealed safety glasses.

### **Hand protection**

Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber).

## Respiratory protection

The following must be prevented: inhalation.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: liquid

Colour: colourless - yellow
Odour: characteristic

Test method

## Vitique Silane B

(GHS\_6126)

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Changes in the physical state

Initial boiling point and boiling range: 250 °C Flash point: 110 °C Density: 1.04 g/cm³ Water solubility: not miscible Vapour density: > 1

#### **SECTION 10: Stability and reactivity**

#### 10.4. Conditions to avoid

heat.

#### 10.5. Incompatible materials

Keep away from strong acids, leachates, heavy metal salts and reducing materials.

#### 10.6. Hazardous decomposition products

Can be released in case of fire: Gas / vapours, irritant. (Acrylate., pungent)

Decomposition under formation of: Methanol.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### Acute toxicity

LD50: (Rat): > 5000 mg/kg

Frequently or prolonged contact with skin may cause dermal irritation.

#### Irritation and corrosivity

Frequently or prolonged contact with skin may cause dermal irritation.

Irritant effect on the eye:

#### Sensitising effects

May cause sensitization by skin contact.

#### Additional information on tests

May produce an allergic reaction.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Aquatoxicity:

LC50: (Brachydanio rerio): > 1024 mg/l/96h

#### 12.2. Persistence and degradability

Product is partially biodegradable.

#### Further information

Do not empty into drains or the aquatic environment. Leakage into the environment must be prevented.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Advice on disposal

Can be burnt together with household waste in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

Paste: Carry out a burning of harzardous waste according to official regulations .

#### Waste disposal number of waste from residues/unused products

## Vitique Silane B

(GHS\_6126)

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180106

WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing dangerous substances

Classified as hazardous waste.

#### **SECTION 14: Transport information**

#### Other applicable information

Not a hazardous material with respect to these transportation regulations.

## **SECTION 15: Regulatory information**

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

#### National regulatory information

Water contaminating class (D): 2 - water contaminating

#### **SECTION 16: Other information**

#### **Further Information**

(The data for the hazardous ingredients were taken respectively from the last version 01/13/2016 of the sub-contractor's safety data sheet.)