## **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 077812217

# 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 077812100 077812159 077812167 077812175 077812183 077812191 077812209 077812225 077812233 077812241 077812258

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/underta	aking
Product identifier		
Vitique		
Product group:	Endprodukt	
Relevant identified uses of th	e substance or mixture and uses advised against	
Details of the supplier of the	safety data sheet	
Company name:	DMC Chemisch Pharmazeutische Eabrik CmbH	

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** 

## 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

Danger symbols:

Xi - Irritant



Xi - Irritant

## Hazardous components which must be listed on the label Methacrylic esters.

#### R phrases

36/37/38 43	Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.
S phrases	
26	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

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#### 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: 1	040	Page 3 of 4	
Eye protection				
Tightly seale	ed safety glasses.			
SECTION 9: Physical and	d chemical properties			
Information on basic physic	cal and chemical properties			
Physical state:	Paste			
Colour:	yellow			
Odour:	like: ester			
		Test m	ethod	
pH-Value:		2,5		
Changes in the physical	state			
Boiling point:		>200 °C		
Zersetzungspunkt:		>60 °C		
Vapour pressure: (at 20 °C)		1 hPa		
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 treatm	<u>ent methods</u>		
Advice on	Can be burnt together with approved waste disposal of	household waste in compliance with official regulations in contact with companies and with authorities in charge. of harzardous waste according to official regulations.	
Waste dis 180106	WASTES FROM HUMAN kitchen and restaurant was	a residues/unused products OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except stes not arising from immediate health care); wastes from natal care, evention of disease in humans; chemicals consisting of or containing aste.	
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 cont	taminating 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

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-Pharmazeutisc	che Fabrik GmbH		
Street:	Elbgaustraße 248	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

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## 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

		I	est 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: (at 20 °C)		23 hPa	
Density:		1,1 g/cm³	
Solubility in other solvents:	Solubility ca. 50 %		
Vapour density:		> 1	
0 Ctability and seathility			

## 10. Stability and reactivity

Test method

according to Regulation (EU) No. 1907/2006

#### **TECO**

Print date: 31.08.2010

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#### 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: 31.08.20	)10	MSDS: 2222	Page 4 of 4
	•	t be listed on the label	
	thacrylic esters.		
R phrases 36/37/38 43		respiratory system and skin. ization by skin contact.	
S phrases 26 28	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 contamina	ating class (D):	2 - water contaminating	
16. Other informa	ation		
Full text of R-ph	arases referred to u	nder sections 2 and 3	
36/37/38		respiratory system and skin.	
43		ization by skin contact.	
Further Informa	tion		

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

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according to Regulation (EC) No 1907/2006

Etching	Ge

Print date: 01.04.2014

Product code: 6100\_GHS

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

## 1.1. Product identifier

Product group:

Etching Gel

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	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: 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 P305+P351+P338 Wear protective gloves/protective clothing/eye protection/face protection. 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 Gel**

Print date: 01.04.2014

Product code: 6100\_GHS

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#### 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 G	je
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Print date: 01.04.2014

Product code: 6100\_GHS

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## **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	
COTION 40. Stability and reacti			

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

## 10.5. Incompatible materials

Alkalis (alkalis).

#### according to Regulation (EC) No 1907/2006

## **Etching Gel**

Print date: 01.04.2014

Product code: 6100\_GHS

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## **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)

<u>14.1. UN number:</u>	1805
14.2. UN proper shipping name:	PHOSPHORIC ACID SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	111
Hazard label:	8
	8
Classification code:	C1
Limited quantity:	5 L
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

according to Regulation (EC) No 1907/2006

Print date: 01.04.2014	Etching Gel Product code: 6100_GHS	Page 5 of 6
Other applicable information (land tran	sport)	
E1		
Marine transport (IMDG)		
<u>14.1. UN number:</u>	1805	
14.2. UN proper shipping name:	PHOSPHORSÄURE, LÖSUNG	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	III	
Hazard label:	8	
Special Provisions:	223	
Limited quantity:	5 L	
EmS:	F-A, S-B	
Other applicable information (marine tr E1	ansport)	
Air transport (ICAO)		
<u>14.1. UN number:</u>	1805	
14.2. UN proper shipping name:	PHOSPHORSÄURE, LÖSUNG	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	III	
Hazard label:		
Special Provisions:	A3	
Limited quantity Passenger:	1 L	
IATA-packing instructions - Passenger:	852	
IATA-max. quantity - Passenger:	5 L	
IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	856 60 L	
Other applicable information (air trans		
E1 : Y841		
14.5. Environmental hazards		
Dangerous for the environment:	no	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental reg	ulations/legislation specific for the substance or mixture	
National regulatory information		
Water contaminating class (D):	1 - slightly water contaminating	
SECTION 16: Other information		

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 stater	nents 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

Endprodukt
64-17-5
603-002-00-5
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 F	abrik 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**

## 2.1. 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

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#### Hazardous components

Chemical name	Quantity
Classification	
GHS classification	
ethanol, ethyl alcohol	65 - 75 %
F - Highly flammable R11	
Flam. Liq. 2; H225	
Phosphoric acid %; orthophosphoric acid	< 5 %
C - Corrosive R34	
Skin Corr. 1B; H314	
	Classification GHS classification ethanol, ethyl alcohol F - Highly flammable R11 Flam. Liq. 2; H225 Phosphoric acid %; orthophosphoric acid C - Corrosive R34

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

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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.

#### **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 met	nod
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

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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	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 / 1 / 48 h (Ethanol); Acute Daphnia toxicity (Daphnia magna): EC50: 9268 - 14221 mg / 1 / 48 h

CAS No	Chemical name							
	Aquatic toxicity	Aquatic toxicity Method Dose h Species Source						
64-17-5	ethanol, ethyl alcohol	ethanol, ethyl alcohol						
	Acute crustacea toxicity	EC50 mg/l	9268 - 14221	48	Daphnia magna	IUCLID		
7664-38-2	Phosphoric acid %; orthophos	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)				
<u>14.1. UN number:</u>	1170			
14.2. UN proper shipping name:	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)			
14.3. Transport hazard class(es):	3			
14.4. Packing group:	II			
Hazard label:	3			
Classification code:	F1			
Special Provisions:	144 601			
Limited quantity: Transport category:	1 L 2			
Hazard No:	33			
Tunnel restriction code:	D/E			
Other applicable information (land trans	sport)			
Marine transport (IMDG)				
<u>14.1. UN number:</u>	1170			
14.2. UN proper shipping name:	ETHANOL, LÖSUNG (ETHYLALKOHOL, LÖSUNG)			
14.3. Transport hazard class(es):	3			
14.4. Packing group:				
Hazard label:	3			
Special Provisions:	144			
Limited quantity:	3L			
EmS:	F-E, S-D			
Other applicable information (marine tra E2	ansport)			
Air transport (ICAO)				
<u>14.1. UN number:</u>	1170			
14.2. UN proper shipping name:	ETHANOL, LÖSUNG (ETHYLALKOHOL, LÖSUNG)			
14.3. Transport hazard class(es):	3			
14.4. Packing group:	II			
Hazard label:	3			
Special Provisions:	A3			
Limited quantity Passenger:	1 L			
IATA-packing instructions - Passenger:	353			
IATA-max. quantity - Passenger: IATA-packing instructions - Cargo:	5 L 364			
IATA-packing instituctions - Cargo:	60 L			

Revision No: 1,01

according to Regulation (EC) No 1907/2006

		Silan	Α	
Print date: 01.04.20	14	Product code:	6125_GHS	Page 6 of 6
	e information (air trans	sport)		
E2 : Y3				
14.5. Environmenta				
Dangerous for th	e environment:	no		
SECTION 15: Reg	ulatory information			
15.1. Safety, health	and environmental re	gulations/legislation spe	cific for the substance or	mixture
National regulat				
SECTION 16: Oth	er information			
Full text of R ph	rases referred to unde	er Sections 2 and 3		
11	Highly flammable.			
34	Causes burns.			
Full text of H sta	atements referred to u	nder Sections 2 and 3		

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

Highly flammable liquid and vapour.

Causes severe skin burns and eye damage.

H225

H314

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:	
Pictograms:	



#### **Hazard statements**

H335	May cause respiratory irritation.	
H319	Causes serious eye irritation.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	

Warning GHS07

#### 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	Pag	e 3 of 4
SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and	I 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/cm	3	
Water solubility:	not miscible	9	
Vapour density:	> `	1	
SECTION 10: Stability and reactivi	ty		
10.4. Conditions to avoid	-		
heat.			
10.5. Incompatible materials			
	acids, leachates, heavy metal salts and reducing materia	lls.	
10.6. Hazardous decomposition produ			

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**

		/itique		
		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: 2	13080. Vitique Silane Adhesive: 213	3081. Vitique Veneer Accessory Kit: 213082.		
Vitique Base Refill Syring	e: 213038, 213039, 213040, 213041, 2	213042, 213043, 213044, 213045		
Vitique Try-In Refill Syring	<b>ge:</b> 213048, 213049, 21350, 213051, 2	13052, 213053, 213054, 213055		
Vitique Accessory: 21305	7, 21058			
1.3. Details of the supplier	of the safety data sheet			
1.2. Relevant identified use	s of the substance or mixture and	d uses advised against		
	: DMG AMERICA LLC 242 South Dean Street Englewood, NJ. 07631	SDS Emergency No. INFOTRAC (800) 535 - 5053		
SECTION 2: Hazards ide				
2.1. Classification of the su	bstance 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	5			
Signal word:	Danger			
Pictograms:	GHS05-GHS07			
Hazard statements				
H318	Causes serious eye damage.			
H317	May cause an allergic skin reac	tion.		
Precautionary statemen P305+P351+P338		ith water for several minutes. Remove contact lenses, if ie rinsing.		
P333+P313	If skin irritation or rash occurs: 0			
P280	Wear protective gloves/protective	ve clothing/eye protection/face protection.		
<b>SECTION 3: Composition</b>	n/information on ingredients			
<u>3.2. Mixtures</u>				

#### Chemical characterization

chemical characterization (preparation): Acrylate.-resin.

Ï

## Vitique

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

#### Hazardous components

EC No	Chemical name	Quant
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. Page 2 of 5

## Vitique

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

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#### **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

	г	est method
pH-Value:	2.5	
Changes in the physical state Initial boiling point and boiling range:	>200 °C	
Decomposition temperature:	>60 °C	
Vapour pressure: (at 20 °C)	1 hPa	
Density:	1.9 g/cm³	
Water solubility: (at 20 °C)	5% g/L	
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

Revision No: 1,00

		Vitique	l de la companya de la		
		Product code: 21380, 21381,	213082 (GHS_1040)		Page 4 of
		Dose	Species	Source	
L	D50, oral	> 10000 mg/kg	Rat.	calculated.	
Irritation and	-	strong irritant. Risk of serious	damage to eyes.		
Sensitising e N	<b>ffects</b> May cause sensitization	ı by skin contact.			
	<b>s after repeated or pro</b> No data available	olonged exposure			
-	/ <b>mutagenic/toxic effec</b> No data available	ts for reproduction			
	<b>formation on tests</b> Contains Methacrylic es	ters.: May produce an allergic	reaction.		
SECTION 12: E	cological informatio	on			
C	<u>e and degradability</u> Do not empty into drains Preparation not tested.	s or the aquatic environment. L	eakage into the environ	ment must be prevented.	
SECTION 13: D	isposal consideratio	ons			
3.1. Waste treat	-				
Advice on dis					
C	Can be burnt together wapproved waste dispose	vith household waste in complia al companies and with authoriti	es in charge.		
C a F Waste dispos 180106 V k d d	Can be burnt together wapproved waste dispose Paste: Carry out a burni <b>sal number of waste fr</b> WASTES FROM HUMA kitchen and restaurant v	al companies and with authoriti ng of harzardous waste accord om residues/unused products N OR ANIMAL HEALTH CARE vastes not arising from immedi prevention of disease in human	es in charge. ding to official regulation: <b>s</b> E AND/OR RELATED RE ate health care); wastes	s. ESEARCH (except from natal care,	
C a F Waste dispos 180106 V k d d d C	Can be burnt together wapproved waste dispose Paste: Carry out a burni sal number of waste fro WASTES FROM HUMA sitchen and restaurant v diagnosis, treatment or langerous substances	al companies and with authoriti ng of harzardous waste accord om residues/unused products N OR ANIMAL HEALTH CARE vastes not arising from immedi prevention of disease in human waste.	es in charge. ding to official regulation: <b>s</b> E AND/OR RELATED RE ate health care); wastes	s. ESEARCH (except from natal care,	
C a F Waste dispos 180106 V k d d C SECTION 14: T Dther applicable	Can be burnt together wapproved waste dispose Paste: Carry out a burni sal number of waste fro WASTES FROM HUMA titchen and restaurant v diagnosis, treatment or langerous substances Classified as hazardous fransport information	al companies and with authoriti ng of harzardous waste accord om residues/unused products N OR ANIMAL HEALTH CARE vastes not arising from immedi prevention of disease in human waste.	es in charge. ding to official regulations <b>s</b> E AND/OR RELATED RE ate health care); wastes ns; chemicals consisting	s. ESEARCH (except from natal care,	
C Waste dispos 180106 V k d C SECTION 14: T Dther applicable	Can be burnt together wapproved waste dispose Paste: Carry out a burni sal number of waste fro WASTES FROM HUMA titchen and restaurant v diagnosis, treatment or langerous substances Classified as hazardous fransport information	al companies and with authoriting of harzardous waste accord om residues/unused products N OR ANIMAL HEALTH CARE vastes not arising from immedi prevention of disease in human waste.	es in charge. ding to official regulations <b>s</b> E AND/OR RELATED RE ate health care); wastes ns; chemicals consisting	s. ESEARCH (except from natal care,	
C Waste dispos 180106 V k d d C SECTION 14: T Dther applicable N SECTION 15: R	Can be burnt together was ported waste disposa Paste: Carry out a burni sal number of waste fro WASTES FROM HUMA titchen and restaurant v diagnosis, treatment or langerous substances Classified as hazardous fransport information to a hazardous materia tegulatory information	al companies and with authoriting of harzardous waste accord om residues/unused products N OR ANIMAL HEALTH CARE vastes not arising from immedi prevention of disease in human waste.	es in charge. ding to official regulations <b>s</b> E AND/OR RELATED RE ate health care); wastes ns; chemicals consisting	s. ESEARCH (except from natal care, of or containing	
C Waste dispos 180106 V k C SECTION 14: T Other applicable N SECTION 15: R 15.1. Safety, hea	Can be burnt together was ported waste disposa Paste: Carry out a burni sal number of waste fro WASTES FROM HUMA titchen and restaurant v diagnosis, treatment or langerous substances Classified as hazardous fransport information to a hazardous materia tegulatory information	al companies and with authoriting of harzardous waste accord om residues/unused products N OR ANIMAL HEALTH CARE vastes not arising from immedi prevention of disease in human waste.	es in charge. ding to official regulations <b>s</b> E AND/OR RELATED RE ate health care); wastes ns; chemicals consisting	s. ESEARCH (except from natal care, of or containing	
Waste dispos 180106 V k d d SECTION 14: T Other applicable N SECTION 15: R 5.1. Safety, hea National regu	Can be burnt together was participated waste disposate Paste: Carry out a burni sal number of waste fro WASTES FROM HUMA stitchen and restaurant v diagnosis, treatment or dangerous substances Classified as hazardous fransport information of a hazardous material segulatory information lth and environmental	al companies and with authoriting of harzardous waste accord om residues/unused products N OR ANIMAL HEALTH CARE vastes not arising from immedi prevention of disease in human waste.	es in charge. ding to official regulations s AND/OR RELATED RE ate health care); wastes ns; chemicals consisting ortation regulations.	s. ESEARCH (except from natal care, of or containing	
C Waste dispos 180106 V k d d C SECTION 14: T Dther applicable N SECTION 15: R I5.1. Safety, hea National regu Water contam	Can be burnt together was ported waste disposate Paste: Carry out a burni cal number of waste fro WASTES FROM HUMA witchen and restaurant valiagnosis, treatment or langerous substances Classified as hazardous ransport information Not a hazardous materia cagulatory information Ith and environmental ulatory information	al companies and with authoriting of harzardous waste accord om residues/unused products N OR ANIMAL HEALTH CARE vastes not arising from immedi prevention of disease in human waste. n al with respect to these transpo on regulations/legislation speci	es in charge. ding to official regulations s E AND/OR RELATED RE ate health care); wastes ns; chemicals consisting ortation regulations.	s. ESEARCH (except from natal care, of or containing	
Waste dispos 180106 V 180106 V k d d d d d d d d d d d d d d d d d d	Can be burnt together was participated waste disposate Paste: Carry out a burni sal number of waste fro WASTES FROM HUMA sitchen and restaurant v diagnosis, treatment or langerous substances Classified as hazardous fransport information Not a hazardous materia e information Not a hazardous materia tegulatory information linating class (D):	al companies and with authoriting of harzardous waste accord om residues/unused products N OR ANIMAL HEALTH CARE vastes not arising from immedi prevention of disease in human a waste. n al with respect to these transpo on regulations/legislation speci 2 - water contaminating	es in charge. ding to official regulations s E AND/OR RELATED RE ate health care); wastes ns; chemicals consisting ortation regulations.	s. ESEARCH (except from natal care, of or containing	

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.

Revision date: 01-31-2018

## Vitique

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

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## **Further Information**

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(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: Address:	DMG AMERICA LLC 242 South Dean St Englewood, NJ. 07631	
Telephone No.: Email: Website:	(800) 662 - 6383 Info@dmg-america.com 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 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	
H314	

May be corrosive to metals. Causes severe skin burns and eye damage.

#### Precautionary statements P280

P280Wear protective gloves/protective clothing/eye protection/face protection.P305+P351+P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if<br/>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		
		т	est method
pH-Value:		ca. 1	
Changes in the physical state	e		
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: (at 23 °C)		20 hPa	
Density:		1,4 g/cm³	
Water solubility:		easily soluble.	
Vapour density:		< 1	
CECTION 40: Stability and re-	4114		

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

#### 10.5. Incompatible materials

Alkalis (alkalis).

## **ETCHING GEL**

(GHS 6100)

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#### **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)

<u>14.1. UN number:</u>	UN 1805
14.2. UN proper shipping name:	PHOSPHORIC ACID SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	111
Hazard label:	8
	R R R R R R R R R R R R R R R R R R R
Classification code:	C1
Limited quantity:	5 L
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E
Other applicable information (land tran E1	nsport)

	ETCHING GEL	
	(GHS_6100)	Page 5 of 6
Marine transport (IMDG)		
<u>14.1. UN number:</u>	UN 1805	
14.2. UN proper shipping name:	PHOSPHORIC ACID SOLUTION	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	III	
Hazard label:	8	
	8	
Special Provisions:	223	
Limited quantity: EmS:	5 L F-A, S-B	
Other applicable information (marine tr E1	ansporg	
Air transport (ICAO)		
<u>14.1. UN number:</u>	UN 1805	
14.2. UN proper shipping name:	PHOSPHORIC ACID SOLUTION	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	111	
Hazard label:	8	
Special Provisions: Limited quantity Passenger:	A3 1 L	
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	852 5 L 856 60 L	
Other applicable information (air transp	port)	
E1 : Y841		
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	no	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental reg	ulations/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 te 34 Causes burns.	ext)	
	and full text) sive to metals. re skin burns and eye damage.	
	, ,	

## **ETCHING GEL**

(GHS\_6100)

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(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

Address: Telephone No.:	DMG AMERICA LLC 242 South Dean Street Englewood, NJ. 07631 (800) 662 - 6383 info@dmg-america.com	SDS Emergency No. INFOTRAC (800) 535 - 5053
Email: Website:	info@dmg-america.com 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 statemer	nts
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			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
1565-94-2	Bis-GMA		15 - 25 %	

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)

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

	rest method
pH-Value (at 20 °C):	4.5 - 7
Changes in the physical state	
Initial boiling point and boiling range:	100 °C
point of decomposition:	> 200 °C
Flash point:	> 100 °C
Vapour pressure: (at 20 °C)	23 hPa
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**

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TECO

(GHS\_2222)

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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.

TECO

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# **Further Information**

-

(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

(GHS\_6125)

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## 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

SDS Emergency No. INFOTRAC (800) 535 - 5053

### **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 H315 Highly flammable liquid and vapour. 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.

# Vitique Silane A

(GHS\_6125)

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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

(GHS\_6125)

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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

(GHS\_6125)

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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	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]   [d]	Species	Source
64-17-5	ethanol, ethyl alcohol	ethanol, ethyl alcohol				
	Acute crustacea toxicity	EC50 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

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Remove according to the regulations.

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

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)	Page 5 of 6
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):	3	
14.4. Packing group:	11	
Hazard label:	3	
Classification code:	F1	
Special Provisions:	144 601	
Limited quantity:	1L	
Transport category: Hazard No:	2 33	
Tunnel restriction code:	D/E	
Other applicable information (land tran		
E2	sporty	
Marine transport (IMDG)		
<u>14.1. UN number:</u>	UN 1170	
14.2. UN proper shipping name:	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	
<u>14.3. Transport hazard class(es):</u>	3	
14.4. Packing group:	II	
Hazard label:	3	
Special Provisions:	144	
Limited quantity:	3L	
EmS:	F-E, S-D	
Other applicable information (marine tr E2 Air transport (ICAO)	ansport)	
<u>14.1. UN number:</u>	UN 1170	
14.2. UN proper shipping name:	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	11	
Hazard label:	3	
Special Provisions: Limited quantity Passenger:	A3 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)

11 Highly flammable.

34 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 IAddress:242 South DeanCity, State, Zip code:Englewood, NJ.Telephone No.:(800) 662 - 6383Email:Info@dmg-americWebsite:www.dmg-americ	Street 07631 SDS Emergency No. INFOTRAC (800) 535 - 5053 ca.com
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# **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

automary otatomonito	
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.
	present and easy to do. Continue rinsing.

#### **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

(GHS\_6126)

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

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	Vitique Silane B	
	(GHS_6126)	Page 3 of 4
Changes in the physical state		
Initial boiling point and boiling range:	250 °C	
Flash point:	110 °C	
Density:	1.04 g/cm <sup>3</sup>	
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)	Page 4 of 4		
180106		AL HEALTH CARE AND/OR RELATED RESEARCH (except			
		arising from immediate health care); wastes from natal care, of disease in humans; chemicals consisting of or containing			
	dangerous substances				
	Classified as hazardous waste.				
SECTION 14	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 r	egulatory information				
Water cont	aminating class (D): 2 - w	vater 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.)