

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

Icon-Infiltrant

Print date: 31.08.2010

MSDS: 2600

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1. Identification of the substance/preparation and of the company/undertaking**Identification of the substance or preparation**

Icon-Infiltrant

Further trade names

Icon-Infiltrant

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 (substance)**

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**

Provide adequate ventilation. Wear suitable protective clothing. The following must be prevented:
inhalation. skin contact.

Environmental precautions

Do not empty into drains or the aquatic environment.

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Methods for cleaning up/taking up

Collect mechanically.

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**

Ensure adequate ventilation of the storage area.

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

Further information on storage conditions

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:	not applicable
Changes in the physical state	
point of decomposition:	> 250 °C
Flash point:	100 °C
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Vapour pressure:	not determined
Density:	1 g/cm ³

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Water solubility:

miscible.

10. Stability and reactivity**Conditions to avoid**

Light. heat.

Decomposition takes place from temperatures above: 200 °C

Materials to avoid

Reducing agents. radical former. heavy metals.

Hazardous decomposition products

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

11. Toxicological information**Acute toxicity**

Acute toxicity, oral (Rat.): LD50: > 5000mg/kg ; Acute toxicity, dermal (Rabbit.): LD50: > 3000mg/kg

Corrosive and irritant effects

Frequently or prolonged contact with skin may cause dermal irritation.

Irritant effect on the eye:

Additional information on tests

Contains Methacrylic esters.: May produce an allergic reaction.

12. Ecological information**Persistence and degradability**

Preparation not tested.

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.

Paste: Carry out a burning of hazardous 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

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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

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. .

National regulatory information**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

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1. Identification of the substance/preparation and of the company/undertaking**Identification of the substance or preparation**

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Company/undertaking identification

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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 : Corrosive
 R-phrases:
 Causes burns.
 Irritating to respiratory system.

3. Composition/information on ingredients**Chemical characterization (Mixture)**

Hydrochloric (HCl).

Sum formula:	HCl
Molecular weight:	36,46

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
	7647-01-0	Hydrochloric (HCl).	15 - 20 %	C, Xi R34-37

Full text of each relevant R phrase can be found in heading 16.

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4. First aid measures**After inhalation**

Provide fresh air. Consult physician.
 If victim is at risk of losing consciousness, position and transport on their side.

After contact with skin

After contact with skin, wash immediately with plenty of water. Remove contaminated clothing immediately and dispose off safely.

After contact with eyes

Move victim out of danger zone. Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult physician.

After ingestion

Do not induce vomiting. Rinse mouth immediately and drink large quantities of water. Consult physician.

5. Fire-fighting measures

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Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Material is not combustible.

6. Accidental release measures**Personal precautions**

The following must be prevented: inhalation. skin contact. Eye contact. Wear suitable protective clothing.

Environmental precautions

Do not empty into drains or the aquatic environment.

Methods for cleaning up/taking upAbsorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Suitable material for diluting or neutralizing: lime-Water. , "lime water" Ca(OH)₂ aq.**7. Handling and storage****Handling****Advice on safe handling**

Wear suitable protective clothing and gloves. Avoid contact with eyes.

Further information on handling

Keep container tightly closed.

Storage**Requirements for storage rooms and vessels**

Keep container tightly closed. Suitable material for Container: Glass. material, acid proof.

Advice on storage compatibility

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

Storageclass (VCI):

3A

8. Exposure controls/personal protection**Exposure limit values****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):.0,4mm

Eye protection

Tightly sealed safety glasses.

9. Physical and chemical properties**General information**

Physical state:	Paste
Colour:	green
Odour:	pungent

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Important health, safety and environmental information

	Test method
pH-Value:	ca.1
Changes in the physical state	
point of decomposition:	>100 °C
Lower explosion limits:	
Upper explosion limits:	
Vapour pressure: (at 20 °C)	ca.21 hPa
Density (at 20 °C):	ca1,1 g/cm ³
Water solubility:	miscible.

10. Stability and reactivity**Conditions to avoid**

at °C: ca 100-point of decomposition

Materials to avoid

metals in powder form. metal. amines. Alkalis (alkalis).

Hazardous decomposition products

Hydrochloric (HCl).

11. Toxicological information**Acute toxicity**

Acute toxicity, oral LD50: (species: Rat.): 3000 ppm (Vol.)/1h

Corrosive and irritant effects

Irritant effect on the eye: corrosive. Risk of serious damage to eyes. Irritant effect on the skin: Causes burns. Following inhalation: Coughing. shortage of breath. Gas / vapours, irritant. After ingestion: Causes burns. Nature of Hazard: Stomach perforation.

Additional information on tests

highly caustic.

12. Ecological information**Further information**

Leakage into the environment must be prevented.

13. Disposal considerations**Advice on disposal**

Remove according to the regulations.

Waste disposal number of waste from residues/unused products

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14. Transport information

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Land transport (ADR/RID)

UN number: 1789
ADR/RID class: 8
Classification code: C1
Warning plate
Hazard-no.: 80
Hazard label: 8
ADR/RID packing group: II
Limited quantity: LQ22

Description of the goods

HYDROCHLORIC ACID

Other applicable information (land transport)

Special provisions: 144 601

Special provisions: 520

Inland waterways transport

UN number: 1789
ADNR class:
8
Classification code: C1
Hazard label: 8
Packing group: II
Limited quantity: LQ22

Description of the goods

HYDROCHLORIC ACID

Other applicable information (inland waterways transport)

Special provisions: 144 330 601

Special provisions: 520

Marine transport

UN number: 1789
IMDG code: 8
Hazard label: 8
IMDG packing group: II
EmS: F-A, S-B
Limited quantity: 1 L

Description of the goods

CHLORWASSERSTOFFSÄURE

Other applicable information (marine transport)

Special provisions: 144, 330

Special provisions: -

Air transport

UN/ID number: 1789
ICAO/IATA-DGR: 8
Hazard label: 8
ICAO packing group: II
Limited quantity Passenger: 0.5 L

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IATA-packing instructions - Passenger:	809
IATA-max. quantity - Passenger:	1 L
IATA-packing instructions - Cargo:	813
IATA-max. quantity - Cargo:	30 L

Description of the goods

CHLORWASSERSTOFFSÄURE

15. Regulatory information**Labelling**

Danger symbols: C - Corrosive

Hazardous components which must be listed on the label

hydrogen chloride

R phrases

- 34 Causes burns.
- 37 Irritating to respiratory system.

S phrases

- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

National regulatory information**16. Other information****Full text of R-phrases referred to under sections 2 and 3**

- 34 Causes burns.
- 37 Irritating to respiratory system.

(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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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 : Highly flammable

R-phrases:
Highly flammable.**3. Composition/information on ingredients****Chemical characterization (substance)**

Ethanol.

Sum formula: C₂H₆O

Molecular weight: 46,07

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
200-578-6	64-17-5	ethanol, ethyl alcohol	95 - 100 %	F R11

Full text of each relevant R phrase can be found in heading 16.

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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. Change contaminated clothing. Rub in high-fat content cream.

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.

5. Fire-fighting measures**Suitable extinguishing media**Atomized water. alcohol resistant foam. Carbon dioxide (CO₂). Extinguishing powder. Sand.

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Extinguishing media which must not be used for safety reasons

High power water jet.

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

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

Special protective equipment for fire-fighters

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

6. Accidental release measures**Personal precautions**

Keep away from sources of ignition - No smoking.
The following must be prevented: inhalation. skin contact. Eye contact.

Environmental precautions

Do not empty into drains or the aquatic environment.

Methods for cleaning up/taking up

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

7. Handling and storage**Handling****Advice on safe handling**

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

Storage**Requirements for storage rooms and vessels**

Keep in a cool place.

Further information on storage conditions

3A ()

Storageclass (VCI):

3A

8. Exposure controls/personal protection**Exposure limit values****Exposure limits (EH40)**

CAS-No.	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

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.

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9. Physical and chemical properties**General information**

Physical state: liquid
 Colour: colourless-transparent
 Odour: characteristic

Important health, safety and environmental information

	Test method
pH-Value:	neutral
Changes in the physical state	
Melting point:	ca. -115 °C
Boiling point:	ca. 80 °C
Flash point:	12 °C
Lower explosion limits:	3.5 vol. %
Upper explosion limits:	15 vol. %
Vapour pressure: (at 20 °C)	59 hPa
Density (at 20 °C):	0,7903 g/cm ³
Water solubility:	complete miscible
Viscosity / dynamic: (at 20 °C)	1,3 mPa·s

Other information

Ignition temperature: 425 °C

10. Stability and reactivity**Conditions to avoid**

heat.

Materials to avoid

Oxidizing agents. peroxides. acid. Alkali metals.

11. Toxicological information**Acute toxicity**

Acute toxicity, oral LD50: (species: Rat.): > 6200 mg/kg; Acute toxicity, inhalant 95.6 mg / l / 4 h

Corrosive and irritant effects

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

12. Ecological information**Ecotoxicity**

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

Persistence and degradability

Easily biodegradable (concerning to the criteria of the OECD)

13. Disposal considerations

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Advice on disposal

Remove according to the regulations.

Waste disposal number of waste from residues/unused products

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Classified as hazardous waste.

14. Transport information**Land transport (ADR/RID)**

UN number: 1170
ADR/RID class: 3
Classification code: F1
Warning plate
Hazard-no.: 33
Hazard label: 3
ADR/RID packing group: II
Limited quantity: LQ4

Description of the goods

ETHANOL (ETHYL ALCOHOL)

Inland waterways transport

UN number: 1170
ADNR class:
3
Classification code: F1
Hazard label: 3
Packing group: II
Limited quantity: LQ4

Description of the goods

ETHANOL (ETHYL ALCOHOL)

Marine transport

UN number: 1170
IMDG code: 3
Hazard label: 3
IMDG packing group: II
EmS: F-E, S-D
Limited quantity: 3 L

Description of the goods

ethanol, ethyl alcohol

Air transport

UN/ID number: 1170
ICAO/IATA-DGR: 3
Hazard label: 3
ICAO packing group: II

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Limited quantity Passenger: 1 L

IATA-packing instructions - Passenger: 305

IATA-max. quantity - Passenger: 5 L

IATA-packing instructions - Cargo: 307

IATA-max. quantity - Cargo: 60 L

Description of the goods

ethanol, ethyl alcohol

15. Regulatory information**Labelling**

Danger symbols: F - Highly flammable

R phrases

11 Highly flammable.

S phrases

02 Keep out of the reach of children.

07 Keep container tightly closed.

16 Keep away from sources of ignition - No smoking.

National regulatory information**16. Other information****Full text of R-phrases referred to under sections 2 and 3**

11 Highly flammable.