

Safety Data Sheet

according to Regulation (EC) No 1907/2006

C-Cid

Revision date: 14.03.2017

Product code: CIDES

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

C-Cid

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Gel de ácido para la terapia adhesiva de obturación. Se compone de un gel de glicerina con ácido fosfórico al 37 %. C-Cid también es indicado para la técnica "Total Etch" (técnica de grabado ácido total).

Uses advised against

No existen más datos relevantes disponibles.

1.3. Details of the supplier of the safety data sheet

Company name:	MEGA-PHYSIK GmbH & Co. KG	
	D-76437 Rastatt, República Federal de Alemania	
Street:	Industriestrasse 36	
Place:	D-76437 Rastatt	
Telephone:	++49 (0) 7222 9046-0	Telefax: ++49 (0) 7222 9046-10
e-mail:	info@mega-physik.de	
Contact person:	Dipl.-Ing. Helmut Schiel	Telephone: ++49 (0) 7222 9046-30
e-mail:	helmut.schiel@mega-physik.de	
Internet:	www.mega-physik.de	
Responsible Department:	el director	

1.4. Emergency telephone number:

++49 (0) 7222 9046-30

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Harmful if swallowed.

Causes severe skin burns and eye damage.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

Phosphoric acid 85%; orthophosphoric acid

Signal word: Danger**Pictograms:****Hazard statements**

H302

Harmful if swallowed.

H314

Causes severe skin burns and eye damage.

Precautionary statements

P260

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

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P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.

2.3. Other hazards

Aparatos médicos definidos en la Directiva 93/42/CEE los cuales son invasivos o utilizados en contacto físico directo con el cuerpo humano, son exentos del Reglamento (CE) 1272/2008 (CLP/GHS), si están en fase de finalización y listos para el usuario final.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Mezcla formada por las sustancias especificadas a continuación con adiciones no peligrosas

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
7664-38-2	Phosphoric acid 85%; orthophosphoric acid			30 - < 35 %
	231-633-2			
	Met. Corr. 1, Skin Corr. 1B; H290 H314			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
7664-38-2	231-633-2	Phosphoric acid 85%; orthophosphoric acid	30 - < 35 %
	inhalation: LC50 = 1,689 mg/l (vapours); dermal: LD50 = 2740 mg/kg; oral: LD50 = 1530 mg/kg		

Further Information

El texto de los posibles riesgos aquí indicados se puede consultar en el capítulo 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

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

After inhalation

Suministrar aire fresco. En caso de trastornos, consultar al médico.

Las personas desmayadas deben tenderse y transportarse de lado con la suficiente estabilidad

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

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

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After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

No existen más datos relevantes disponibles.

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

Treat symptomatically. Rinse immediately carefully and thoroughly with eye-bath or water.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

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

5.2. Special hazards arising from the substance or mixture

Non-flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

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

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General measures**

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

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up**Other information**

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

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

Personal precautions

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

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

Advice on protection against fire and explosion

No se requieren medidas especiales

7.2. Conditions for safe storage, including any incompatibilities

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Requirements for storage rooms and vessels

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

Hints on joint storage

No es necesario

Further information on storage conditions

Mantener el recipiente cerrado herméticamente.
Proteger del calor y de la luz directa del sol.

7.3. Specific end use(s)

No existen más datos relevantes disponibles

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
56-81-5	Glycerol, mist	-	10		TWA (8 h)	WEL
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

8.2. Exposure controls**Appropriate engineering controls**

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

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Medidas higiénicas habituales de la clínica dental.
Evitar el contacto con los ojos y la piel.
Quitarse de inmediato la ropa ensuciada o impregnada.
Mantener alejado de alimentos, bebidas y alimentos para animales.
Lavarse las manos antes de las pausas y al final del trabajo.

Eye/face protection

Suitable eye protection: goggles. Gafas de protección herméticas

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. El material del guante deberá ser impermeable y resistente al producto / substancia / preparado.

Selección del material de los guantes en función de los tiempos de rotura, grado de permeabilidad y degradación.

· Material de los guantes

Caucho butílico

Caucho fluorado (Viton)

Caucho nitrílico

Caucho natural (Latex)

Caucho de cloropreno

La elección del guante adecuado no depende únicamente del material, sino también de otras características

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de calidad, que pueden variar de un fabricante a otro. Teniendo en cuenta que el producto está fabricado a partir de diferentes materiales, su calidad no puede ser evaluada de antemano, de modo que los guantes deberán ser controlados antes de su utilización.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: viscoso
 Colour: azul
 Odour: odourless

pH-Value (at 20 °C):

Test method
 2 DIN 53785

Changes in the physical state

Melting point: not determined
 Boiling point or initial boiling point and boiling range: not determined
 Flash point: not determined

Flammability

Solid/liquid: not applicable
 Gas: not applicable
 Lower explosion limits: not determined
 Upper explosion limits: not determined

Self-ignition temperature

Solid: not applicable
 Gas: not applicable
 Decomposition temperature: not determined

Oxidizing properties

Not oxidising.
 Vapour pressure: <0,1 hPa DIN 51640
 (at 20 °C)
 Density (at 20 °C): 1,3 g/cm³
 Water solubility: cabal

Solubility in other solvents

not determined
 Partition coefficient n-octanol/water: not determined
 Relative vapour density: not determined
 Evaporation rate: not determined

9.2. Other information

Solid content: 6,04 %

No existen más datos relevantes disponibles

SECTION 10: Stability and reactivity

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10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

Estable en condiciones normales de manipulación y almacenamiento

Descomposición térmica / condiciones que deben evitarse: No se descompone al emplearse adecuadamente.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

No existen más datos relevantes disponibles

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Kinguno en condiciones normales de almacenamiento y uso

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****ATEmix tested**

	Dose	Species	Source
LD50, oral	1530 mg/kg	Rat	

Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7664-38-2	Phosphoric acid 85%; orthophosphoric acid				
	oral	LD50 mg/kg	1530	Rat	
	dermal	LD50 mg/kg	2740	Rat	
	inhalation vapour	LC50 mg/l	1,689	Rabbit	

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information**12.1. Toxicity**

Toxicidad acuática: No existen más datos relevantes disponibles.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
7664-38-2	Phosphoric acid 85%; orthophosphoric acid					
	Acute fish toxicity	LC50	138 mg/l	96 h	Gambusia affinis	

12.2. Persistence and degradability

No existen más datos relevantes disponibles

12.3. Bioaccumulative potential

No existen más datos relevantes disponibles

12.4. Mobility in soil

No existen más datos relevantes disponibles

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· Indicaciones medioambientales adicionales:

· Indicaciones generales:

Nivel de riesgo para el agua 1 (autoclasiación): escasamente peligroso para el agua

En estado no diluido o no neutralizado, no dejar que se infiltre en aguas subterráneas, aguas superficiales o en alcantarillados.

En estado no diluido o no neutralizado, no verter en el alcantarillado o en otros sistemas de desagüe.

El vertido de grandes cantidades en la canalización o en las aguas puede causar un aumento del valor pH.

Un valor de pH alto es nocivo para los organismos acuáticos. En la dilución de la concentración de la aplicación, el valor pH se reduce considerablemente, de modo que después de utilizar el producto, las aguas residuales vertidas en la canalización son mínimamente dañinas para el agua.

12.5. Results of PBT and vPvB assessment

· PBT: No aplicable.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

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

List of Wastes Code - residues/unused products

180206 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (EXCEPT KITCHEN AND RESTAURANT WASTES NOT ARISING FROM IMMEDIATE HEALTH CARE); wastes from research, diagnosis, treatment or prevention of disease involving animals; chemicals other than those mentioned in 18 02 05

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number:** UN 1805**Other applicable information (land transport)**

Landtransport ADR/RID und GGVS/GGVE (grenzüberschreitend/Inland)

ADR/RID-GGVS/E Klasse: 8 (C1) Ätzende Stoffe

Kemler Zahl: 80

UN-Nummer: 1805

Verpackungsgruppe: III

Gefahrzettel: 8

Bezeichnung des Gutes: 1805 Phosphorsäure, Lösung

Begrenzte Menge (LQ): LQ7

Beförderungskategorie: 3

Seeschifftransport IMDG/GGVSee

IMDG/GGVSee-Klasse: 8

UN-Nummer: 1805

Label: 8

Verpackungsgruppe: III

EMS-Nummer: F-A,S-B

Marine Pollutant: nein

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Richtiger technischer Name: PHOSPHORIC ACID, SOLUTION

Lufttransport ICAO-TI/IATA-DGR

ICAO/IATA Klasse: 8

UN/ID-Nummer: 1805

Label: 8

Verpackungsgruppe: III

Richtiger technischer Name: PHOSPHORIC ACID, SOLUTION

Inland waterways transport (ADN)**14.2. UN proper shipping name:** Phosphoric acid 85%; orthophosphoric acid**14.3. Transport hazard class(es):** 8**14.4. Packing group:** III

Danger releasing substance: Contaminante marino: No

14.6. Special precautions for user

Atención: Materias corrosivas

· Número Kemler: 80

· Número EMS: F-A,S-B

14.7. Maritime transport in bulk according to IMO instruments

No aplicable.

Other applicable information

· ADR

· Cantidades limitadas (LQ) 5L

· Cantidades exceptuadas (EQ) Código: E1

Cantidad neta máxima por envase interior: 30 ml

Cantidad neta máxima por embalaje exterior: 1000 ml

· Categoría de transporte 3

· Código de restricción del túnel E

· IMDG

· Limited quantities (LQ) 5L

· Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

2010/75/EU (VOC): 12,963 % (168,519 g/l)

2004/42/EC (VOC): 12,963 % (168,519 g/l)

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

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Changes

This data sheet contains changes from the previous version in section(s): 2,3,4,6,10,12,13,15.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

Further Information

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

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

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