

E.C.Safety Data Sheets according with regulation (EC) 1907/2006 Tradename: mercapor (Dipping hardener)	megadental GmbH Seeweg 20 D-63654 Büdingen
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1. Identification of the substance/preparation and of the company/undertaking

Information on the product


Trade name: mercapor


Use / Purpose: Dipping hardener for Co.Cr. investment, by using duplicating gel, Hardening isn't necessary.

Information on the manufacturer megadental GmbH **Australian Distributor:** Ultimate Dental
Seeweg 20 660a South Rd
D-63654 Büdingen Moorabbin Vic 3189
Tel: +49(0) 6042-97550 Tel: 03 9532 1799
FAX: +49(0)6042-975520 Fax: 03 9555 9455
Australian Emergency Phone No: 13 11 26 (Poisons 24/7)

2. Hazards identification

Risk advice to man and the environment

 F R11 Highly flammable.

 Xi R43 May cause sensitization by skin contact.

3. Composition/information on ingredients

Chemical nature
Preparation consisting of the following components:

Hazardous components

ethanol Concentration: >= 60,00 % - < 80,00 %
CAS-No.: 64-17-5 EC-No.: 200-578-6 Index-No.: 603-002-00-5
Classification: F; R11

colophony Concentration: >= 20,00 % - < 40,00 %
CAS-No.: 8050-09-7 EC-No.: 232-475-7 Index-No.: 650-015-00-7
Classification: Xi; R43

For the full text of the R phrases mentioned in this Section, see Section 16.

4. First aid measures

General advice :
Remove victim from exposure, lie down. Take off all contaminated clothing immediately.

Inhalation :
Remove victim to fresh air. If symptoms persist, call a physician.

Skin contact :
Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Eye contact :
Rinse thoroughly with plenty of water, also under the eyelids. Consult a physician.

Ingestion :
Clean mouth with water and drink afterwards plenty of water. Induce vomiting only under medical attention; Call a physician immediately.

Notes to physician

Hazards :
Consists mainly of ethanol. Depending on the quantity and other circumstances consumption of ethanol can lead to a state of mental excitement and subsequent intoxication with symptoms like loss of self-control, dizziness or vomiting.

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5. Fire-fighting measures

Suitable extinguishing media :

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which must not be used for safety reasons :

high volume water jet

Specific hazards during fire fighting :

Vapours may form explosive mixtures with air. Heating or fire can release toxic gas.

Special protective equipment for fire-fighters :

In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit)

Additional advice :

Cool closed containers exposed to fire with water spray.

6. Accidental related measures

Personal precautions :

Use personal protective equipment. Keep people away from and upwind of spill/leak. Provide adequate ventilation. Keep away from heat and sources of ignition. Avoid contact with skin and eyes. Do not inhale gas/smoke/vapour/aerosol.

Environmental precautions :

Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up :

Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Treat recovered material as described in the section "Disposal considerations". After cleaning, flush away traces with water.

7. Handling and storage

Handling

Advice on safe handling :

Keep container tightly closed. Provide sufficient air exchange and/or exhaust in work rooms. Avoid formation of aerosol. Avoid contact with skin and eyes.

Advice on protection against fire and explosion :

Flammable liquid. Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Use only explosion-proof equipment.

Storage

Requirements for storage areas and containers :

Keep in an area equipped with solvent resistant flooring. Keep in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

German storage class :

3A: Flammable Liquids

8. Exposure controls/personal protection

Components with workplace control parameters

ethanol

MAK: 960 mg/m³, 500 ppm,

Top limit: 4

CAS-No.: 64-17-5

TRGS 900

If in compliance with the MAK and BAT values, then there should be no risk to the fetus.

TRGS 900

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Personal protective equipment

Respiratory protection :

In case of insufficient ventilation wear suitable respiratory equipment. Breathing apparatus with filter.
Recommended Filter type:A

Hand protection :

solvent-resistant gloves; As the product is a preparation of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use.
Protective gloves should be replaced at first signs of wear.

Eye protection :

safety glasses

Body Protection :

protective suit

Hygiene measures :

Take off all contaminated clothing immediately. Do not inhale gas/smoke/vapour/aerosol. Avoid contact with the skin and the eyes. Keep away from food, drink and animal feedingstuffs.
Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday.

Engineering measures

Refer to protective measures listed in sections 7 and 8.

9. Physical and chemical properties

Appearance

Form : liquid
Colour : dark yellow
Odour : alcoholic

Safety data

Boiling point/range : 78 °C
Flash point : 17 °C
Explosive properties : Product is not explosive. Formation of explosive air/vapour mixtures is possible.
Density : 0,842 g/cm³; 20 °C
Water solubility : miscible

10. Stability and reactivity

Conditions to avoid :

Heat, flames and sparks.

Materials to avoid :

Incompatible with oxidizing agents.

Hazardous decomposition products :

Heating or fire can release toxic gas.

General advice :

No decomposition if stored and applied as directed.

11. Toxicological information

Ingestion :

ethanol: LD50 rat 6.200 mg/kg

Inhalation :

ethanol: LC50 rat 124,7 mg/l 4 h

Eye contact :

irritant effects

Sensitization :

May cause sensitization by skin contact.

Human experience :

Consists mainly of ethanol. Depending on the quantity and other circumstances consumption of ethanol can lead to a state of mental excitement and subsequent intoxication with symptoms like loss of self-control, dizziness or vomiting.

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12. Ecological information

Elimination information (persistence and degradability)

Biodegradability :

ethanol: 84 % 20 d; Readily biodegradable

Further information on ecology

Additional ecological :

Do not flush into surface water or sanitary sewer system.

13. Disposal considerations

Product :

Disposal together with normal waste is not allowed. Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations. Do not empty into drains.


Packaging :

Empty remaining contents. Risk of explosion. Do not burn, or use a cutting torch on, the empty drum. Offer rinsed packaging material to local recycling facilities. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

14. Transport information


Overland transport

ADR/RID/GGVSE

UN-No	1170	
Class	3	
Packaging group	II	
Classification Code	F1	
ADR/RID-Labels	3	
Risk No.	33	
Description of the goods	ETHANOL SOLUTION	


Shipment by sea

IMDG/GGVSee

UN-No	1170	
Class	3	
Packaging group	II	
Classification Code	F1	
ADR/RID-Labels	3	
Risk No.	33	
Description of the goods	ETHANOL SOLUTION	

Air transport

ICAO/IATA

UN-No	1170	
Class	3	
Packaging group	II	
ADR/RID-Labels	3	
EmS	F-E, S-D	
Description of the goods	ETHANOL SOLUTION	

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15. Regulatory information

Labelling according to EC Directives
1999/45/EC



F Highly flammable



Xi Irritant

R-phrases

- R11 Highly flammable.
- R43 May cause sensitization by skin contact.

S-phrases

- S 9 Keep container in a well-ventilated place.
- S16 Keep away from sources of ignition - No smoking.
- S24 Avoid contact with skin.
- S33 Take precautionary measures against static discharges.
- S37 Wear suitable gloves.

Hazardous components which must be listed on the label: **colophony**

National legislation

WGK (DE) :

WGK:1; slightly water endangering; Self-classification according VwVwS of 17 May 1999, Annex 4

Major Accident Hazard Legislation :

Does not fall under the German StörfallV. -

Regulation :

Occupational restrictions: Take note of Dir 92/85/EEC on the safety and health of pregnant workers at work and of Dir 94/33/EC on the protection of young people at work.

16. Other information

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

- R11 Highly flammable.
- R43 May cause sensitization by skin contact.

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