

E.C.Safety Data Sheets according with regulation (EC)

1907/2006

Tradename:

megalyt

(Polishing electrolyte for all Co.Cr. alloys)

megadental GmbH
Seeweg 20
D-63654 Büdingen

Status: 18.1.2022

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1. Identification of the substance/preparation and of the company/undertaking**Information on the product**

Trade name: **megalyt**
Use / Purpose: Universal polishing electrolyte for all Co.Cr. alloys

Information on the manufacturer megadental GmbH
Seeweg 20
D-63654 Büdingen
Tel: +49(0) 6042-97550
FAX: +49(0)6042-975520
Quality Management Mr. Murat Büyük

Information on the distributor Ultimate Dental Supplies
660A South Rd
MOORABBIN VIC 3189
Tel: 03 9532 1799
Email: info@ultimatedental.com.au
www.ultimatedental.com.au

Emergency Phone number

13 11 26
Poisons Hotline (24 hours/7days)

2. Hazards identification**Hazard description:**

Xn R22 harmful if swallowed
Xi R36/38 Irritating to eyes and skin

3. Composition/information on ingredients**Hazardous components:**

Designation:	Ethylene glycol	Diluted sulphuric acid
CAS no.	107-21-1	7664-93-9
EC no.	203-473-3	231-639-5
Index-No:	603-027-00-1	016-020-00-8
Concentration:	>= 70% - <= 95%	>= 5 % - <= 15%
Hazard Symbol:	Xn	C
R-phrases	R 22	R 36 / R 38

4. First aid measures

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General instructions:

Remove persons affected from danger zone and lay down. Remove clothing contaminated with product. After contact with eyes rinse thoroughly under running water immediately and consult a doctor. (Show the label of product) Intoxication symptoms may not appear until many hours later, therefore medical supervision for at least 48 hours after accident. A physician attendance is already necessary with suspicion of a poisoning.

After inhalation:

Supply of fresh air or oxygen, obtain medical assistance, since symptoms of intoxication may appear after hours. In the event of unconsciousness, place and transport in stable position on side. In the event of cessation of breathing, place on back, overstretch head, mouth-to-nose resuscitation, if need be oxygenation.

After skin contact:

Remove contaminated clothing, wash with plenty of water and soap and rinse well.

After eye contact:

Rinse eyes immediately under running water with eyelids open. Medical assistance is immediately necessary.

After swallowing:

Do not induce vomiting, rinse out mouth and drink plenty of water immediately and repeatedly and obtain medical assistance immediately.

5. Fire-fighting measures

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during fire fighting:

Under fire conditions: Sulphur oxides; Carbon monoxide.

Special protective equipment for fire-fighters Additional advice:

In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental related measures

Personal precautionary measures:

Avoid contact with substance and inhaling of vapours, make use of safety equipment (see point 8) and keep unprotected persons away. Ensure adequate ventilation, do not inhale vapours and avoid contact with skin and eyes. Slip hazard by leaked product. Keep sources of ignition away. Development of explosive mixtures is possible together with air.

Measures for environmental protection:

Avoid pollution of soil, ground water and natural water.

Measures for cleaning/collecting:

Neutralize with diluted sodium carbonate leach, lime, calcareous sand or soda. Collect with liquidbinding material (sand, silica, calcareous sand, clay mineral, universal binding agent, diatomaceous earth). Dispose of contaminated material as waste in appropriately marked and sealable containers in accordance with point 13.

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7. Handling and storage

Handling

Instructions regarding safe handling:

Avoid inhaling of vapours as well as contact with skin and eyes. Ensure good ventilation at workplace.
Keep containers sealed tightly.

Instructions on fire and explosion protection:

Product is not combustible.

Requirements regarding storage rooms and containers:

Keep containers sealed tightly in a well-ventilated locked room with solvent-resistant and sealed floor.
Storage category (according to VCI-concept: LGK 10 – Flammable liquids (Flammable liquid products which have a maximum vapour pressure of 3 bar at 50°C and can be mixed with water and have a flash point > 50°C).

8. Exposure controls/personal protection

General safety measures:

Wash hands before breaks and at the end of work. Keep away from food. Do not eat, drink or smoke while working. Avoid contact with eyes and skin and do not inhale vapours. Take off dirty clothing immediately. Take suitable skin care measures with skin protection ointment in accordance with the code of practice "Skin protection" of the employers' liability insurance association (e.g. BG Chemistry No. M 042). Minimum standard for preventive measures while handling working materials see TRGS 500.

Components with workplace-related respectively biologically limit values that must be monitored:

Workplace limit value: Ethylene glycol MAK: 26 mg/m³, 10 ml/m³ Sulphuric acid (< 15%) MAK: 10 g/m³

Hand protection / Body protection:

Wear protective work clothing made of chemical-resistant cotton fabric. Kind of the means for maintenance of industrial health and safety standards depends on the concentration and quantity of dangerous material. Solvent-resistant gloves made of butyl rubber or nitrile rubber with at least 10 cm long sleeve.

Eyes protection / Face protection:

Wear tightly sealing safety goggles Use full mask with eye complaints by arising product vapours.

Breathing protection:

Not necessary in case of proper use, only in the event of vapours and increased concentration in the air.

Type of mask:

Full mask (DIN EN 136) or half mask (DIN EN 140).

Protective breathing filter:

Filter category E2 for acid gases or A2 for organic gases.

9. Physical and chemical properties

Appearance

Form:	Liquid
Colour:	Colourless
Odour:	Slightly sweetish

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Safety-related data:

Density:	1,21 g/cm ³ (at 20°C)
Boiling point:	> 200°C
pH value:	<1; 20°C (100% aqueous solution)
Aqueous solubility:	can be mixed without restriction
Flash-point:	119°C
Lower explosive limit:	3,2 vol.-%
Risk of explosion:	Formation of explosive vapour-air mixes is possible

1999/45/EC

Material Safety Data Sheet according to

10. Stability and reactivity**Hazardous decomposition products:**

None known in case of proper use.

In case of fire:

Sulphur dioxide, sulphur tri oxide, carbon monoxide (see point 05).

Conditions to be avoided:

Product is stable. Do not heat up. Protect against humidity and wetness. No dangerous reactions if proper used and stored.

Materials to be avoided:

Do not mix with other chemicals!

Further information:

Product is hygroscopic. Problem of warmth delivery from reaction of solution together with water.
Corrosive against metals and organic materials as well as tissues from animal and vegetable. In steamy or gaseous condition possible explosive reaction with air.

11. Toxicological information

The product is harmful to health and has an irritating effect on the respiratory organs, mucous membranes and the eyes. Sensitizing effects are not known. Harmful to health if swallowed. Irritating for eyes and skin. Intake of larger quantities may cause intoxication and burns in mouth and gastro-intestinal area.

Acute toxicity:**Components:**

Ethylene glycol Diluted sulphuric acid (25%)

LD50 (oral, rat):

4700 mg/Kg 2140 mg/Kg

Additional toxicological information:**After skin / eye contact:**

Strong irritating. Possibilities of burns and damages of horn skin. Risk of loss of sight. Risk of skin resorption. Cause poorly healing wounds.

After inhalation:

Harmful to health. Burns at mucous membranes and respiratory organs. Can lead to cramping, inflammation and oedema at larynx and bronchi, chemical pneumonia and pulmonary oedema.

After swallowing:

Harmful to health. Can lead to burns in mouth, throat , gullet and gastro-intestinal area.

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12. Ecological information

Ecotoxic effects:

Harmful effect on fish and plankton due to shift in pH value. Causes only a small biological material wear out. Do not allow to enter sewages, soil, surface water courses and ground water. Neutralization is possible in purification plants.

13. Disposal considerations

Product:

Engage an officially certified company for adequate disposal considering the local laws.

Residues:

Fill used megalyt back into original container. Contains heavy metal ions after use! Do not dispose via sewage! Contaminated packaging can be disposed of properly together with the used electrolyte or it must be cleaned with water and if need be with detergents. Washing water must be neutralized.

Waste regulations according to Waste Directory Decree (AVV):

Product:

Because of the dangerous ingredients the disposal of the wastes is particularly needed to be monitored and therefore duty provable.

Suggestions for waste regulation: For the product: Waste key no. 11 01 05 Acidic stain solutions. For the packing: Waste key no. 15 01 10 Packages containing residue of dangerous goods or which are soiled with dangerous materials.

14. Transport information

Overland transport / Road traffic ADR/GGVSE and rail traffic RID/GGVSE:

Category:	8
Categorisation code:	C1
Packaging group:	II
Hazard label:	8
Hazardous no. (Kemler no.):	80
UN-no.:	2796
Designation of product:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(Sulphuric acid)
Remark:	Good contains predominant organic components.

Inland navigation transport RID/ADR:

Category:	8
Categorisation code:	C1
Packaging group:	II
Hazard label:	8
Hazardous no. (Kemler no.):	80
UN-no.:	2796
Propper Shipping Name:	SULPHURIC ACIDIC

Sea transport IMDG-Code:

Category:	8
Packaging group:	II
EmS-no.:	8-15
Sea pollutant:	No.

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Hazard label: 8
UN-no.: 2796
EMS: F-A, S_B
Propper Shipping Name: SULPHURIC ACIDIC

Air transport ICAO-TI/IATA-DGR:

Category: 8
Packaging group: II
Danger symbol: Corrosive (RCM)
UN-Nr.: 2796
EMS: F-A, S_B
Description of the goods: SULPHURIC ACID

Further information:

The product is certified for transportation by parcel post, considering the regulations for packaging and labelling of the law of dangerous goods, in containers of max. 1 l packed in parcels containing max. 4 l.

15. Regulatory information**Labelling according to EC Directives 1999/45/EC:**

Harmful: Xn

R-phrases: R 22 Harmful if swallowed.
R 36/38 Irritating to eyes and skin.

S-phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.(If possible show the label)
S 37/39 Wear suitable gloves and eye/face protection

National regulations:**Consider national regulations additionally!****German regulations:****Technological instructions for air:** Category III (Self assessment)**Classification according VBF:** VBF is not applying.**Water hazard category:** WKG 1 Slightly water endangering; self-classification according VwVwS of 17 May 1999, Annex 4**Major Accident Hazard:** Does not fall under the German StörfallIV. -**Swiss regulations:** Poison category 4**Other regulations:****VCI-Store category:** LGK 10 – Combustible liquids (not LGK 3A respectively 3B, but flammable liquid products which have a maximum vapour

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pressure of 3 bar at 50°C and can be mixed with water and have a flash point > 50°C)

16. Other information

This information and all further technical advice is based on our present knowledge and experience. However, it implies liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described here in should be verified by testing which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.