

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Mega M-Liquid

Revision date: 20.01.2020

Product code: 142

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

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

Anmischflüssigkeit zum Modellieren von Sekundärteilen im zahntechnischen Labor

1.3. Details of the supplier of the safety data sheet

Company name:	MEGADENTA Dentalprodukte GmbH	
Street:	Carl-Eschebach-Str. 1A	
Place:	01454 Radeberg, Germany	
Telephone:	+49-3528 4530	Telefax: +49-3528 45321
e-mail:	info@megadenta.de	
Internet:	www.megadenta.de	

1.4. Emergency telephone number: +49-3528 453-0 (just during usual office time: GMT+1)

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

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Causes skin irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

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

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate

Signal word: Warning**Pictograms:****Hazard statements**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P332 If skin irritation occurs:

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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P362+P364	Take off contaminated clothing and wash it before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

2.3. Other hazards

Polymerisation unter Wärmeentwicklung möglich;
Maßnahmen gegen elektrostatische Aufladungen treffen.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	GHS Classification	
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	95 - <= 100 %
	201-297-1	607-035-00-6
	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335	
99-97-8	N,N-dimethyl-p-toluidine	1 - < 5 %
	202-805-4	612-056-00-9
	Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Aquatic Chronic 3; H331 H311 H301 H373 H412	

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	
99-97-8	202-805-4	N,N-dimethyl-p-toluidine	1 - < 5 %
		inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: ATE = 100 mg/kg	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First-aider must protect themselves
Remove soiled, soaked clothing immediately.
Medical attention is required for symptoms which are obviously due to exposure of the product to skin, eyes or inhalation of its vapours.
Attending physician Attending physician Show safety data sheet.

After inhalation

Fresh air, consult doctor in case of complaints. Keep the affected person quiet.

After contact with skin

After contact with skin: wash with water and soap. Consult a doctor if skin irritation occurs.

After contact with eyes

Immediately flush eyes with running water for at least 15 minutes.
Consult a doctor if irritation persists.

After ingestion

Do not induce vomiting. Rinse mouth with water. Consult a doctor immediately. Never give anything by mouth to an unconscious person.

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

Headache Dizziness. Causes skin irritation. Causes eye irritation. Sensitization

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

Hazards: There is no data available.
medical treatment: Symptomatic

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam. Dry extinguishing powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide (CO) Carbon dioxide (CO₂). organic decomposition products

5.3. Advice for firefighters

Keep away from ignition sources, Do not smoke. Take measures against electrostatic discharges. In case of fire, cool endangered containers with water. Formation of ignitable mixtures possible, in air, when heated above flash point and/or during spraying (fogging). Only use explosion-proof devices. Vapours are heavier than air and spread over the ground.

Additional information

Vapours are heavier than air and spread over the ground.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Provide adequate ventilation. Wear suitable protective clothing. Keep away from ignition sources Do not breathe gas/vapour/aerosol. Use appropriate respiratory protection. Remove persons to safety.

6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater. Prevent further spillage/leakage if this is possible without danger.

6.3. Methods and material for containment and cleaning up

Other information

Larger quantities: Pick up mechanically (pump out). Observe EX-protection! Smaller quantities and/or residues: Absorb with liquid-binding material (e.g. sand, diatomite, acid binders, universal binders, sawdust) Dispose of according to regulations.

6.4. Reference to other sections

Wear personal protection equipment (refer to section 8).
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not breathe vapour.
Avoid contact with eyes. Avoid contact with skin.
When using do not eat, drink or smoke.
Keep away from sources of ignition - No smoking.
Take precautionary measures against static discharges.
In case of fire, cool endangered containers with water.

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Formation of ignitable mixtures possible, in air, when heated above flash point and/or during spraying (fogging).

Only use explosion-proof devices.

Vapours are heavier than air and spread over the ground.

Keep container tightly closed and in a well-ventilated place.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Store only in the original container at a temperature not exceeding 30 °C. Protect from exposure to light. Only fill the container to approx. 90 %, as oxygen (air) is required for stabilisation. Can polymerize under strong heat development.

7.3. Specific end use(s)

siehe SECTION 1: Identification

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

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
80-62-6	Methyl methacrylate	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL

8.2. Exposure controls**Eye/face protection**

Wear tightly fitting safety goggles.

Hand protection

Material: Butyl rubber gloves (at least 0.3 mm thick)

Penetration time: 60 min

Directive: EN 374

Additional information: The above mentioned hand protection is based on the knowledge of the chemical and the intended handling of this product, however it may not be suitable for all workplaces. Before starting work, a hazard assessment should be carried out to determine the suitability of gloves for specific work environments and operations.

It is essential to observe the glove supplier's instructions regarding permeability and breakthrough time.

Also take into account the specific local conditions in which the product is used, such as risk of cuts, abrasion and contact time. Gloves must be removed and replaced if they show signs of wear or chemical penetration.

Additional information: Nitrile rubber gloves, Suitable as splash protection.

Skin protection

When handling larger quantities: Face mask, chemical resistant boots and apron.

Respiratory protection

Respiratory protection at high concentrations briefly Filter unit, filter A

Environmental exposure controls

see section 6.

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

Physical state:	liquid
Colour:	colourless
Odour:	ester-like

Test method

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Changes in the physical state

Melting point:	- 48 °C
Boiling point or initial boiling point and boiling range:	100,3 °C DIN 51751
Flash point:	10 °C DIN 51755
Sustaining combustion:	Sustaining combustion
Lower explosion limits:	2,1 vol. %
Upper explosion limits:	12,5 vol. %
Vapour pressure: (at 20 °C)	37 hPa
Density (at 20 °C):	0,94 g/cm ³
Water solubility: (at 20 °C)	15,3 g/L
Partition coefficient n-octanol/water:	1,38
Viscosity / dynamic: (at 20 °C)	0,53 mPa·s

SECTION 10: Stability and reactivity**10.1. Reactivity**

No data available

10.2. Chemical stability

No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions

In the presence of free-radicals (for example from peroxides), reducing substances and/ or heavy metal ions, polymerization is possible under heat development.

10.4. Conditions to avoid

Keep away from heat and ignition sources. Protect from exposure to light. Can polymerise exothermically in the absence of stabilisers, particularly in acid conditions or if shelf life exceeded.

10.5. Incompatible materials

Peroxides, amines, sulfur compounds, heavy metal ions, alkali compounds, reducing and oxidizing agents.
Mineral acid Free radical starter molecules.

10.6. Hazardous decomposition products

No decomposition if used as intended.

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	Ratte mg/kg	>5.000	OECD TG401
LD50, dermal	Kaninchen mg/kg	>5.000	
LC50, inhalation (vapour) (4 h)	Ratte mg/l	29,8	

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Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
99-97-8	N,N-dimethyl-p-toluidine				
	oral	ATE 100 mg/kg			
	dermal	ATE 300 mg/kg			
	inhalation vapour	ATE 3 mg/l			
	inhalation aerosol	ATE 0,5 mg/l			

Specific effects in experiment on an animal

Atemwege, Reizwirkung

Spezifische Zielorgantoxizität – einmalige Exposition Kategorie 3 (UN-GHS)

Further information

Skin and eye contact with the product and inhalation of product vapours should be avoided.

SECTION 12: Ecological information**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
99-97-8	N,N-dimethyl-p-toluidine	2,81

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

Dispose of waste according to applicable legislation. hazardous waste
Abwasser nicht in biologische Kläranlage geben.

Contaminated packaging

Completely emptied packages can be recycled. Packing which cannot be properly cleaned must be disposed of.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number:	UN 1247
14.2. UN proper shipping name:	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate, Stabilized
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Classification code:	F1

Inland waterways transport (ADN)

14.1. UN number:	UN 1247
14.2. UN proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3

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Classification code:	F1
Special Provisions:	386
Limited quantity:	1 L
Excepted quantity:	E2

Marine transport (IMDG)

14.1. UN number:	UN 1247
14.2. UN proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Special Provisions:	386
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-E, S-D
Segregation group:	heavy metals and their salts (including their organometallic compounds)

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	UN 1247
14.2. UN proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Special Provisions:	A209
Limited quantity Passenger:	1 L
Passenger LQ:	Y341
Excepted quantity:	E2
IATA-packing instructions - Passenger:	353
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	364
IATA-max. quantity - Cargo:	60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:	No
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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):	4 %
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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.
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Water hazard class (D):	1 - slightly hazardous to water
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SECTION 16: Other information

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Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

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