

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Mega-L Liquid

Revision date: 02.03.2020

Product code: Mega_L_Fluessigkeit

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

Mega-L Liquid

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

Heat curing resin for the fabrication of dentures using the press process.

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:

Flammable liquid: Flam. Liq. 2

Skin corrosion/irritation: Skin Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour.

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

ethylene dimethacrylate

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

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

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P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards

No information available.

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

Methacrylates

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
80-62-6	Methyl methacrylate			90 - < 95 %
	201-297-1		01-2119452498-28	
	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335			
97-90-5	ethylene dimethacrylateethylene dimethacrylate			5 - < 10 %
	202-617-2			
	Skin Sens. 1, STOT SE 3; H317 H335			

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	
80-62-6	201-297-1	Methyl methacrylate	90 - < 95 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = 7900 mg/kg	
97-90-5	202-617-2	ethylene dimethacrylateethylene dimethacrylate	5 - < 10 %
		inhalation: LC50 = 1,4 mg/l (vapours)	

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

First-aiders 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.

After inhalation

Move the person to fresh air, consult doctor in case of complaints.

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. Medical treatment necessary.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink plenty of water. Do not induce vomiting.

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

Headache Dizziness Causes skin and eye irritation. Sensitization

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂), Foam, Extinguishing powder.

Unsuitable extinguishing media

Water.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Keep away from ignition sources Do not smoke Take measures against electrostatic discharges . Wear a self-contained breathing apparatus and chemical protective clothing. 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

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

Ensure sufficient ventilation. Use personal protection equipment. Keep ignition sources away. In case of dangerous gases, vapours or dusts use self-contained breathing apparatus or suitable masks and filters.

6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater. Danger of explosion

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. Treat the recovered material as prescribed in the section on waste disposal .

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes. Do not eat, drink or smoke when using. Keep away from ignition sources Do not smoke Take measures against electrostatic discharges .

Advice on protection against fire and explosion

In case of fire, cool endangered containers with water. Formation of ignitable mixtures possible, in air, when

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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. Ensure sufficient ventilation.

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

Keep container tightly closed. Keep in a cool, well-ventilated place. Protect from exposure to the light. Keep away from heat and direct sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. In the case of large storage tanks, ensure a sufficient supply of oxygen (air). Can polymerize under strong heat development.

Hints on joint storage

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

7.3. Specific end use(s)

Heat curing resin for the fabrication of dentures using the press process.

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**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.

Eye/face protection

Wear 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 Please observe the specifications of the glove supplier regarding permeability and breakthrough time. Also consider the specific local conditions under which the product is used, such as risk of cuts, abrasion and contact duration. Gloves must be removed and replaced if they show signs of wear or chemical breakthrough.

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing When handling larger quantities: Face mask, chemical resistant boots and apron. Remove soiled, soaked clothing immediately. After work, ensure thorough skin cleansing and skin care. Observe the usual professional hygiene measures.

Respiratory protection

In case of inadequate ventilation wear 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

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Colour:

Odour: characteristic

pH-Value: not determined

Changes in the physical state

Melting point: not determined

Boiling point or initial boiling point and boiling range: 101 °C

Flash point: 10 °C

Flammability

Solid/liquid: not applicable

Gas: not applicable

Lower explosion limits: not determined

Upper explosion limits: not determined

Auto-ignition temperature: 400 °C

Self-ignition temperature

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

Vapour pressure: not determined

Density: 0,94 g/cm³

Water solubility: The study does not need to be conducted because the substance is known to be insoluble in water.

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

Highly flammable.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

Peroxides, amines, sulfur compounds, heavy metal ions, alkali compounds, reducing and oxidizing agents.

Mineral acid Free radical starter molecules.

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10.6. Hazardous decomposition products

No known hazardous decomposition products.

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

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
80-62-6	Methyl methacrylate				
	oral	LD50 mg/kg 7900	Rat		
	dermal	LD50 mg/kg >5000	Rabbit		
97-90-5	ethylene dimethacrylate/ethylene dimethacrylate				
	inhalation (4 h) vapour	LC50 1,4 mg/l	Rat	GESTIS	

Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (Methyl methacrylate; ethylene dimethacrylate/ethylene dimethacrylate)

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation. (Methyl methacrylate)

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

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**

The product is not: Ecotoxic.

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
97-90-5	ethylene dimethacrylate/ethylene dimethacrylate	2,81

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

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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.

Contaminated packaging

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

SECTION 14: Transport information**14.6. Special precautions for user**

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

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): 100 % (940 g/l)

2004/42/EC (VOC): 100 % (940 g/l)

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

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

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 3,4,5,6,7,8,10,11.

Abbreviations and acronymsADR: 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%

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Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

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.

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