

According to Regulation (EC) No.1907/2006 Art 31

Printing date: 25.08.2015

1. Identification of the substance/preparation and of the company/undertaking

Product details :

1.1. Trade name

EASYTEMP 2 - Liquid

1.2. Application of the substance / the preparation Filler/ Extender

Manufacture of dental prothesis

1.3. Manufacturer/Supplier

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1.4. Information in case of emergency

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2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS02, GHS07

Signal word : Danger

Hazard-determining components of labelling:

methyl methacrylate

tetramethylene dimethacrylate

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/sparks/open flames/hot surfaces. - No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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Labelling of packages where the contents do not exceed 125 ml**Hazard pictograms**

GHS02, GHS07

Signal word : Danger**Hazard-determining components of labelling:**

methyl methacrylate

tetramethylene dimethacrylate

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

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

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

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3. Composition/information on ingredients**3.1. Description/CAS No./Dangerous components****Description:**

Liquid based on methacryl acid ester, containing an activator, used for the production of temporary crowns and bridges in dental medicine.

Dangerous components:

CAS: 80-62-6 EINECS: 201-297-1	methyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	50-75%
CAS: 2082-81-7 EINECS: 218-218-1	tetramethylene dimethacrylate Skin Sens. 1B, H317	2.5-10%

Additional information For the wording of the listed risk phrases refer to section 16.

4. First aid measures**4.1 Description of first aid measures****After inhalation**

Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

After skin contact

If skin irritation continues, consult a doctor. Immediately wash with water and soap and rinse thoroughly.

After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

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After swallowing

Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available

5. Fire-fighting measures**5.1 Extinguishing media****Suitable extinguishing agents**

Carbon dioxide

Fire-extinguishing powder

Foam

Water spray

For safety reasons unsuitable extinguishing agents : Water with full jet.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

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

Ensure adequate ventilation. Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources

6.2 Environmental precautions:

Prevent seepage into sewage system, workpits and cellars.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling and storage**7.1 Precautions for safe handling**

Keep receptacles tightly sealed.

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and explosion protection:

Fumes can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke.

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Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles: Storage between 10 °C and 25 °C.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions:

Protect from exposure to the light.

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Storage class :Not determined

7.3 Specific end use(s)

No further relevant information available.

8. Exposure controls and personal protection

8.1. Ingredients with limit values that require monitoring at the workplace

80-62-6 methyl methacrylate

WEL Short-term value: 416 mg/m³, 100 ppm

Long-term value: 208 mg/m³, 50 ppm

Additional information: The lists valid during the making were used as basis.

8.2. Personal protective equipment/Respiratory protection/Protection of hands/Eye protection

Personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: Not necessary if room is well-ventilated. Use suitable respiratory protective device when high concentrations are present.

Protection of hands: Protective gloves. Material of gloves Butyl rubber, BR

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles.

9. Physical and chemical properties

9.1. General Information

Appearance:

Form: Fluid

Colour: Clear

Odour: Characteristic

Odour threshold: Not determined.

pH-value: Not determined

Change in condition

Melting point/Melting range: - 48 °C

Boiling point/Boiling range: 101 °C

Flash point: 10 °C (DIN 51755)

Flammability (solid, gaseous) Not applicable.

Ignition temperature: 430 °C (DIN 51794)

Decomposition temperature: Not determined.

Self-igniting: Product is not selfigniting.

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Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Explosion limits:

Lower: 2.1 Vol % (Literatur)

Upper: 12.5 Vol % (Literatur)

Vapour pressure at 20 °C: 47 hPa

Density: Not determined

Relative density Not determined

Vapour density Not determined.

Evaporation rate Not determined.

Solubility in / Miscibility with

Water: Not miscible or difficult to mix

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

dynamic: Not determined

kinematic: Not determined

Solvent content:

Organic solvents: 0.0 %

10.Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Exothermic polymerization

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials

In presence of radical formers (e. g. peroxides), deoxidizing substances, and/or heavy metal ions, polymerization with heat release is possible.

10.6 Hazardous decomposition products: -

11.Toxicological information

11.1. Acute toxicity

LD/LC50 values relevant for classification:

methyl methacrylate

LD-50 oral >5000 mg/kg rat (lit.)

LD-50 inhalativ 7093 ppm/4h rat (lit.)

tetramethylene dimethacrylate

oral 10120 mg/kg rat

Primary irritant effect:

Skin corrosion/irritation: Irritant to skin and mucous membranes.

Serious eye damage/irritation: No irritating effect.

Respiratory or skin sensitisation : Sensitisation possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU

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Classification Guidelines for Preparations as issued in the latest version: Irritant

12. Ecological information**12.1 Toxicity****Aquatic toxicity:** No further relevant information available.

Type of test	Effective concentration	Method	Assessment
Toxicity to fish: (MMA)	LC-50: >79 mg/l NOEC: 40 mg/l	OECD 203 ISO 7346	
Time: 96 h EEC84			
Species: Oncorhynchus mykiss			
Toxicity to Micro-Organisms (MMA) Pseudomonas putida	Species: ECO: 100 mg/l starting inhibition	of cell growth	

12.2 Persistence and degradability

No further relevant information available.

Behaviour in environmental systems:**Components:**

methyl methacrylate

Biodegradability: 30,7 %

Time: 28 d

Method: OECD 301 C

Valuation: difficult to decompose

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

Additional ecological information:**General notes:**

Water hazard class 2 (UE Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.

13. Disposal considerations**13.1. Waste treatment methods****Recommendation:**

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

07 01 04* other organic solvents, washing liquids and mother liquors

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Uncleaned packaging:**Recommendation:**

Disposal must be made according to official regulations.

14. Transport information**14.1. UN Number**

· ADR, IMDG, IATA UN1247

14.2 UN proper shipping name

· ADR 1 2 4 7 METHYL METHACRYLATE MONOMER, STABILIZED mixture
· IMDG, IATA METHYL METHACRYLATE MONOMER, STABILIZED mixture

14.3 Transport hazard class(es)

· ADR
· Class 3 (F1) Flammable liquids.
· Label 3
· IMDG, IATA
· Class 3 Flammable liquids.
· Label 3

14.4 Packing group

· ADR, IMDG, IATA II

14.5 Environmental hazards:

· Marine pollutant: No

14.6 Special precautions for user

Warning Flammable liquids.

· Danger code (Kemler): 339
· EMS Number: F-E,S-D

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

· Transport/Additional information:

· ADR
· Limited quantities (LQ) 1L
· Excepted quantities (EQ) Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
· Transport category 2
· Tunnel restriction code D/E

· IMDG
· Limited quantities (LQ) 1L
· Excepted quantities (EQ) Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation": UN1247, METHYL METHACRYLATE MONOMER, STABILIZED mixture, 3, II

15.Regulations

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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Directive 2012/18/EU

Named dangerous substances - ANNEX I : None of the ingredients is listed.

National regulations

Technical instructions (air):

Class	Share in %
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NK	50-75
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Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

Relevant phrases:

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation