

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

Revision date: 18.01.2016

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

Product details :

1.1. Trade name

PRECEASY- LIQUID

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

Self curing dental resin

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

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

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.

SAFETY DATA SHEET

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

Revision date: 18.01.2016

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

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.

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	75-100%
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

General information: Immediately remove any clothing soiled by the product.

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.

SAFETY DATA SHEET

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

Revision date: 18.01.2016

After skin

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

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing

Do not induce vomiting; call for medical help 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

Water haze

Foam

Fire-extinguishing powder

Carbon dioxide

For safety reasons unsuitable extinguishing agents

Water with full jet.

5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

Additional information

Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately.

It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6. Accidental release measures

6.1. Person-related safety precautions

Ensure adequate ventilation .

Wear protective clothing.

Keep away from ignition sources .

Wear protective equipment. Keep unprotected persons away.

Avoid eye and skin contact with the substance.

6.2. Measures for environmental protection

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

6.3. Measures for cleaning/collecting

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

Ensure adequate ventilation.

SAFETY DATA SHEET

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

Revision date: 18.01.2016

Do not flush with water or aqueous cleansing agents

Additional information:

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. Information for safe handling

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

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:

Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s)

No further relevant information available.

8. Exposure controls and personal protection gear

Additional information about design of technical facilities: No further data; see item 7.

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

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.

Filter A

Protection of hands:

Solvent resistant gloves

Material of gloves Butyl rubber, BR

Penetration time of glove material 0,1-0,2 mm: 5 min.

Eye protection:

Safety glasses

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

Revision date: 18.01.2016

Body protection:

Solvent resistant protective clothing (Only when handling large quantities)

9. Physical and chemical properties

9.1. General Information

Form: Fluid

Colour: Colourless

Odour: Ester-like

· Change in condition

Melting point/Melting range: -48°C

Boiling point/Boiling range: 101°C

Flash point: 10°C

Ignition temperature: 430°C

Self-igniting: Product is not selfigniting.

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

Explosion limits:

Lower: 2.1 Vol %

Upper: 12.5 Vol %

Vapour pressure at 20°C: 47 hPa

Density at 20°C:

Solubility in / Miscibility with

Water: Not miscible or difficult to mix

pH-value: Not determined

Viscosity:

dynamic: Not determined

kinematic: Not determined

10. Thermal decomposition / conditions to be avoided

10.1 Reactivity

No further relevant information available.

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.

11. Toxicological information

11.1. Acute toxicity

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

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

Revision date: 18.01.2016

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

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

Primary irritant effect:

Skin corrosion/irritation

Causes skin irritation.

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

Respiratory or skin sensitisation

May cause an allergic skin reaction.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity : Based on available data, the classification criteria are not met.

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

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

STOT-single exposure

May cause respiratory irritation.

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.

12. Ecological information**12.1. Toxicity**

Aquatic toxicity: No further relevant information available.

Type of test :

Toxicity to fish

Effective concentration :

LC-50: >79 mg/l

(MMA) NOEC: 40 mg/l

Method :

OECD 203

ISO 7346

Assessment

Time: 96 h EEC84

Species:

Oncorhynchus mykiss

Toxicity to Micro-Organisms:

Species:

(MMA) Pseudomonas putida

ECO: 100 mg/l starting inhibition of cell growth

12.2. Persistence and degradability

No further relevant information available.

Behaviour in environmental systems:

Components:

SAFETY DATA SHEET

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

Revision date: 18.01.2016

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 1 (EU Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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. Product

Recommendation:

Must be specially treated adhering to official regulations.

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

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

14. Transport information

14.1.UN-Number:

ADR, IMDG, IATA UN 1247

14.2.UN proper shipping name

ADR : 1247 METHYL METHACRYLATE MONOMER, STABILIZED mixture

IMDG: METHYL METHACRYLATE MONOMER, STABILIZED mixture

IATA : Methyl methacrylate monomer, stabilized mixture

14.3.Transport hazard class

Class: 3(F1) Flammable liquid

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

Revision date: 18.01.2016

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): 33

EMS Number: F-E,S-D

Stowage Category : B

Stowage Code : SW2 Clear of living quarters

14.7 Transport in bulk according to Annex II of Marpol 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: 30ml

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": UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED MIXTURE, 3, II

15.Regulations15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Directive 2012/18/EU

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

Seveso category : P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements: 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements : 50,000 t

National regulations

Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

Technical instructions (air):

Class Share in %

III 2,5-10

NK 75-100

SAFETY DATA SHEET

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

Revision date: 18.01.2016

Waterhazard class: Water hazard class 1 (Self-assessment): slightly 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 R-phrases

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.