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Material Safety Data Sheet acc. to ISO/DIS 11014

1 Identification of substance

- · Product details
- · Trade name: GC Tempron Liquid
- · Application of the substance / the preparation Auxiliary for dental technology
- · Manufacturer/Supplier:

GC EUROPE N.V. Interleuvenlaan 13

B-3001 Leuven

Tel. +32/(0)16/39.80.50

Fax + 32/(0)16/40.26.84

quality@gceurope.com

· Information department: Technical Operations

2 Composition/Data on components

- · Chemical characterization
- · Description:

Mixture of the substances listed below with nonhazardous additions.

Mixture: consisting of the following components.

· Dangerous components:		
CAS: 80-62-6 EINECS: 201-297-1	Methyl methacrylate	99.0%
CAS: 99-97-8 EINECS: 202-805-4	N,N-dimethyl-p-toluidine	1%

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

3 Hazards identification

· Hazard description:





Harmful Highly flammable

· Information pertaining to particular dangers for man and environment:

The product has to be labelled due to the calculation procedure of international guidelines.

Highly flammable.

Harmful by inhalation, in contact with skin and if swallowed.

Danger of cumulative effects.

Irritating to respiratory system and skin.

May cause sensitization by skin contact.

· Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· NFPA ratings (scale 0 - 4)



Health = 2 *Fire* = 3

Reactivity = 0

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Trade name: GC Tempron Liquid

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· HMIS-ratings (scale 0 - 4)



4 First aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· 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: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Immediately call a doctor.

5 Fire fighting measures

- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents:

Water

Water with full jet

· Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- · Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
- · Measures for environmental protection:

Do not allow product to reach sewage system or any water course.

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

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

· Measures for cleaning/collecting:

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

7 Handling and storage

- · Handling:
- · Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

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Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Components with limit values that require monitoring at the workplace:

80-62-6 Methyl methacrylate

PEL () 410 mg/m³, 100 ppm

REL() 410 mg/m³, 100 ppm

TLV () Short-term value: 410 mg/m³, 100 ppm Long-term value: 205 mg/m³, 50 ppm SEN

- · Additional information: The lists that were valid during the creation were used as basis.
- · 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 skin.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application

· Penetration time of glove material

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

· Eve protection:



Tightly sealed goggles

9 Physical and chemical properties

· General Information

Form: Fluid Color: Yellow tint

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Odor:	Characteristic
· Change in condition Melting point/Melting range: Boiling point/Boiling range:	
· Flash point:	10°C (50°F)
· Ignition temperature:	430.0°C (806°F)
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits: Lower: Upper:	2.1 Vol % 12.5 Vol %
· Vapor pressure at 20°C (68°F):	: 47.0 hPa (35 mm Hg)
· Density at 20°C (68°F):	0.94000 g/cm³
Solubility in / Miscibility with Water at 20°C (68°F):	1.6 g/l
· Viscosity: Dynamic at 20°C (68°F):	1 mPas
· Solvent content: Organic solvents:	0.0 %
· Solids content:	1.0 %

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Dangerous reactions No dangerous reactions known.
- · Dangerous products of decomposition: No dangerous decomposition products known.

11 Toxicological information

- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful Irritant

12 Ecological information

· General notes:

Water hazard class 1 (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.

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13 Disposal considerations

- · Product:
- · Recommendation:

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

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

· DOT regulations:



· Hazard class: 3

· Identification number: UN1247 · Packing group: II

· Proper shipping name (technical name): METHYL METHACRYLATE MONOMER, STABILIZED

· Label 3

· Land transport ADR/RID (cross-border):



· ADR/RID class: 3 (F1) Flammable liquids

Danger code (Kemler): 339
UN-Number: 1247
Packaging group: II
Label: 3

· Description of goods: 1247 METHYL METHACRYLATE MONOMER, STABILIZED

· Maritime transport IMDG:



· IMDG Class: 3
· UN Number: 1247
· Label 3
· Packaging group: II
· Marine pollutant: No

• Propper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class: 3 *· UN/ID Number:* 1247 *· Label* 3 *· Packaging group:* II

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Trade name: GC Tempron Liquid

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· Propper shipping name:

METHYL METHACRYLATE MONOMER, STABILIZED

15 Regulations

- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

80-62-6 Methyl methacrylate

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Cancerogenity categories
- · EPA (Environmental Protection Agency)

80-62-6 Methyl methacrylate

E;NL

· IARC (International Agency for Research on Cancer)

80-62-6 Methyl methacrylate

3

· NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

80-62-6 Methyl methacrylate

A4

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

· Hazard symbols:

Harmful

Highly flammable

· Hazard-determining components of labelling:

Methyl methacrylate

N,N-dimethyl-p-toluidine

· Risk phrases:

Highly flammable.

Harmful by inhalation, in contact with skin and if swallowed.

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Trade name: GC Tempron Liquid

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Danger of cumulative effects.

Irritating to respiratory system and skin.

May cause sensitization by skin contact.

· Safety phrases:

Keep out of the reach of children.

Keep container in a well-ventilated place.

Keep away from food, drink and animal feedingstuffs.

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point

Wear suitable protective clothing and gloves.

If swallowed, seek medical advice immediately and show this container or label.

- · National regulations:
- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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.

- · Department issuing MSDS: Technical Operations
- · Contact: Dr. P. Manouvriez
- * Data compared to the previous version altered.

- USA