

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 22.02.2010

Version: 11

Revision: 17.08.2007

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1 Identification of substance:

· **Product details:**

· **Trade name:** Temdent Classic, Flüssigkeit

· **Article number:** 220020-1

· **Application of the substance / the preparation** see point 3)

· **Manufacturer/Supplier:**

Schütz Dental GmbH, Dieselstrasse 5-6, D-61191 Rosbach v.d.H. (Germany)

Tel.: +49 (0)6003/814-0 Fax: +49 (0)6003/814-900

www.schuetz-dental.de; e-mail: info@schuetz-dental.de

· **Further information obtainable from:** F&E, Tel. +49 (0)6003/814-100

· **Information in case of emergency:** +49 (0)6003/814-0 (8:00-17:00 h)

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2 Hazards identification

· **Hazard description:**



Xi Irritant

F Highly flammable

· **Information concerning to particular hazards to man and environment**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 11 Highly flammable.

R 37/38 Irritating to respiratory system and skin.

R 43 May cause sensitisation by skin contact.

· **Classification system**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **GHS label elements**



Danger

H225 - Highly flammable liquid and vapour.



Warning

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H335 - May cause respiratory irritation.

· **Prevention:**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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

· **Response:**

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).

· **Storage:**

P405 Store locked up.

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· **Disposal:**

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

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

3 Composition/information on ingredients

· **Chemical characterization**

· **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	 Xi,  F; R 11-37/38-43	50-75%
		Danger:  2.6/2	
		Warning:  3.2/2, 3.4.S/1, 3.8/3	
CAS: 142-09-6 EINECS: 205-521-9	n-Hexylmethacrylat	 Xi; R 36/37/38	2.5-10%
		Warning:  3.2/2, 3.3/2, 3.8/3	

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

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4 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.

· **After swallowing** Call a doctor immediately.

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5 Fire fighting measures

· **Suitable extinguishing agents**

Carbon dioxide

Fire-extinguishing powder

Foam

Water spray

· **For safety reasons unsuitable extinguishing agents** Water with full jet.

· **Protective equipment:** Wear self-contained respiratory protective device.

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6 Accidental release measures

· **Person-related safety precautions:**

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources

· **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.

· **Measures for cleaning/collecting:**

Dispose of the material collected according to regulations.

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

Dispose contaminated material as waste according to item 13.

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Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· **Additional information:** See Section 13 for disposal information.

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7 Handling and storage

· **Handling**

· **Information 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.

Protect against electrostatic charges.

· **Storage**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Close container immediately after use and protect product from light incidence.

· **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

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8 Exposure controls and personal protection gear

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

· **Ingredients with limit values that require monitoring at the workplace:**

80-62-6 methyl methacrylate

OEL Short-term value: 510 mg/m³, 125 ml/m³

Long-term value: 410 mg/m³, 100 ml/m³

· **Additional information:** The lists valid during the making 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 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.

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· **Eye protection:** Tightly sealed goggles.

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9 Physical and chemical properties:

· General Information

Form:	Fluid
Colour:	Clear
Odour:	Characteristic

· Change in condition

Melting point/Melting range:	- 48°C
Boiling point/Boiling range:	101°C

· **Flash point:** 10°C (DIN 51755)· **Ignition temperature:** 430°C (DIN 51794)· **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 % (Literatur)
Upper:	12.5 Vol % (Literatur)

· **Vapour pressure at 20°C:** 47 hPa· **Density at 20°C:** 0.97 g/cm³

· Solubility in / Miscibility with

Water:	Not miscible or difficult to mix
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· **pH-value:** Not determined

· Viscosity:

dynamic:	Not determined
kinematic:	Not determined

· Solvent content:

Organic solvents:	0.0 %
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· **Solids content:** 0.3 %· **Additional information** ---

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10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· Materials to be avoided:

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

· **Dangerous reactions** Exothermic polymerization· **Dangerous decomposition products:** -

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11 Toxicological information

- **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.)
 - n-Hexylmethacrylat LD-50 oral >5000 mg/kg rat (lit.)
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

Irritant
- **Sensitisation** May cause sensitisation by skin contact.

12 Ecological information:

- **Behaviour in environmental systems:**
- **Components:**
 - methyl methacrylate Biodegradability: 30,7 %
 - Time: 28 d
 - Method: OECD 301 C
 - Valuation: difficult to decompose
- **Ecotoxicological effects:**
- **Acquatic toxicity:**
- **Type of test Effective concentration Method Assessment**
 - Toxicity to fish: LC-50: >79 mg/l OECD 203
 - (MMA) NOEC: 40 mg/l ISO 7346
 - Time: 96 h EEC84
 - Species:
 - Oncorhynchus mykiss*
 - Toxicity to Micro- ECO: 100 mg/l starting inhibition
 - Organisms Species: of cell growth
 - (MMA) *Pseudomonas putida*
- **General notes:**

Water hazard class 2 (German 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.

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13 Disposal considerations

- **Product:**
- **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.

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· **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.

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14 Transport information· **Land transport ADR/RID (cross-border)**· **ADR/RID class:** 3 (F1) Flammable liquids.· **Danger code (Kemler):** 339· **UN-Number:** 1247· **Packaging group:** II· **Hazard label** 3· **Description of goods:** 1247 METHYL METHACRYLATE MONOMER, STABILIZED, mixture· **Maritime transport IMDG:**· **IMDG Class:** 3· **UN Number:** 1247· **Label** 3· **Packaging group:** II· **EMS Number:** F-E,S-D· **Marine pollutant:** No· **Proper shipping name:** METHYL METHACRYLATE MONOMER, STABILIZED, mixture· **Air transport ICAO-TI and IATA-DGR:**· **ICAO/IATA Class:** 3· **UN/ID Number:** 1247· **Label** 3· **Packaging group:** II· **Proper shipping name:** METHYL METHACRYLATE MONOMER, STABILIZED, mixture· **UN "Model Regulation":**

UN1247, METHYL METHACRYLATE MONOMER, STABILIZED, mixture, 3, II

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15 Regulations

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

· **Code letter and hazard designation of product:**

Xi Irritant

F Highly flammable

· **Hazard-determining components of labelling:**

methyl methacrylate

· **Risk phrases:**

11 Highly flammable.

37/38 Irritating to respiratory system and skin.

43 May cause sensitisation by skin contact.

· **Safety phrases:**

2 Keep out of the reach of children.

9 Keep container in a well-ventilated place.

24 Avoid contact with skin.

29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

37 Wear suitable gloves.

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

· **National regulations**

· **Technical instructions (air):**

Class	Share in %
II	70 - 80
III	5 - 15

· **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

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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**

11 Highly flammable.

36/37/38 Irritating to eyes, respiratory system and skin.

37/38 Irritating to respiratory system and skin.

43 May cause sensitisation by skin contact.

· **Department issuing MSDS:** Schütz Dental GmbH

· **Contact:** Dr. U. Krichbaum

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

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*ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)**GHS: Globally Harmonized System of Classification and Labelling of Chemicals**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent***. * Data compared to the previous version altered.**

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