

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 03.08.2009

Revision: 03.08.2009

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

- **Product details**

- **Trade name:** Kallocryl liquids (A/C 80, 250, 1000 ml, B 250 ml)

- **Article number:** 1614 (A/C 1000 ml), 1615 (A/C 250 ml), 1616 (A/C 80 ml), 1664 (B 250 ml)

- **Application of the substance / the preparation** liquid for Kallocryl denture resins and Kalloplast R adhesive

- **Manufacturer/Supplier:**

SPEIKO-Dr.Speier GmbH, POB 7204, 48039 Münster, GERMANY

Tel. ++49/251/78904-0, Fax ++49/251/78904-22

- **Further information obtainable from:** SPEIKO-Dr.Speier GmbH, info@speiko.de

- **Information in case of emergency:**

Giftnotruf Berlin

Tel. ++49/30/19240

2 Hazards identification

- **Hazard description:**



Xi Irritant

F Highly flammable

- **Information concerning particular hazards for human and environment:**

R 11 *Highly flammable.*

R 37/38 *Irritating to respiratory system and skin.*

R 43 *May cause sensitisation by skin contact.*

- **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.*

P233 *Keep container tightly closed.*

P240 *Ground/bond container and receiving equipment.*

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

P242 *Use only non-sparking tools.*

P243 *Take precautionary measures against static discharge.*

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

P264 *Wash thoroughly after handling.*

P271 *Use only outdoors or in a well-ventilated area.*

P272 *Contaminated work clothing should not be allowed out of the workplace.*

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

- **Response:**

P302+P352 *IF ON SKIN: Wash with plenty of soap and water.*

P303+P361+P353 *IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.*

P304+P340 *IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.*

P312 *Call a POISON CENTER or doctor/physician if you feel unwell.*

P321 *Specific treatment (see on this label).*

P332+P313 *If skin irritation occurs: Get medical advice/attention.*

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- P333+P313 *If skin irritation or rash occurs: Get medical advice/attention.*
 P362 *Take off contaminated clothing and wash before reuse.*
 P363 *Wash contaminated clothing before reuse.*
 P370+P378 *In case of fire: Use for extinction: CO2, powder or water spray.*

· **Storage:**

- P403+P233 *Store in a well-ventilated place. Keep container tightly closed.*
 P403+P235 *Store in a well-ventilated place. Keep cool.*
 P405 *Store locked up.*

· **Disposal:**

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

3 Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Description**
80-62-6 methyl methacrylate
- **Identification number(s)**
- **EINECS Number:** 201-297-1
- **Index number:** 607-035-00-6

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:** *Immediately wash with water and soap and rinse thoroughly.*
- **After eye contact:** *Rinse opened eye for several minutes under running water.*
- **After swallowing:** *If symptoms persist consult doctor.*

5 Fire-fighting measures

- **Suitable extinguishing agents:** *CO2, sand, extinguishing powder. Do not use water.*
- **For safety reasons unsuitable extinguishing agents:** *Water with full jet*
- **Protective equipment:** *No special measures required.*

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.
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).
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.

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- **Information about fire - and explosion protection:**
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 container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Storage class:** 3 A

8 Exposure controls/personal protection

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

80-62-6 methyl methacrylate

WEL	Short-term value: 416 mg/m ³ , 100 ppm Long-term value: 208 mg/m ³ , 50 ppm
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- **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 skin.
Avoid contact with the eyes and skin.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

- **Material of gloves**
suitable is Butyl Rubber, thickness 0,5 mm, penetration time 60 min.
Unsuitable are fabric, leather, latex (NR), poly chloroprene (CR), nitril latex (NBR), fluoric rubber (FKM) polyvinyl chloride (PVC)
- **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.
- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

- **General Information**

Form:	liquid
Colour:	colourless
Odour:	charcteristic

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· Change in condition Melting point/Melting range: -48°C Boiling point/Boiling range: 101°C	
· Flash point:	10°C
· Ignition temperature:	430°C
· 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:	0.94 g/cm ³
· Solubility in / Miscibility with water at 20°C:	1.6 g/l
Organic solvents:	100 %
· Solids content:	0 %

10 Stability and reactivity

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

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

80-62-6 methyl methacrylate

Oral LD50 7872 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Sensitisation** May cause sensitisation by skin contact.

12 Ecological information

- **General notes:**

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

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

13 Disposal considerations

- **Product:**

- **Recommendation**

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

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **ADR/RID class:** 3 Flammable liquids.
- **Danger code (Kemler):** 339
- **UN-Number:** 1247
- **Packaging group:** II
- **Hazard label:** 3
- **Description of goods:** 1247 METHYL METHACRYLATE MONOMER, STABILIZED, solution
- **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, solution

- **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, solution

- **UN "Model Regulation":** UN1247, METHYL METHACRYLATE MONOMER, STABILIZED, solution, 3, II

15 Regulatory information

- **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
- **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.
24 Avoid contact with skin.
9 Keep container in a well-ventilated place.
16 Keep away from sources of ignition - No smoking.

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GB

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· **National regulations:**

Class	Share in %
NK	99.0

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.

· **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

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

GB