

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.05.2013

Version: 3

Revision: 24.05.2013

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

- **Product identifier**
- **Trade name:** Acryl G Fluid
- **Article number:** 450910-450912-4
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation** self curing resin
- **Details of the supplier of the safety data sheet**
- **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
- **Emergency telephone number:** +49 (0)6003/814-0 (8:00-17:00 h)

2 Hazards identification

- **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.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

R37/38: Irritating to respiratory system and skin.



Xi; Sensitising

R43: May cause sensitisation by skin contact.



F; Highly flammable

R11: Highly flammable.

- **Information concerning particular hazards for human 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.

- **Classification system:**

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

- **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

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· 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.

· Other hazards**· Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· **Description:** Liquid based on methacryl acid ester, containing an activator.

· Dangerous components:

CAS: 80-62-6	methyl methacrylate	75-100%
EINECS: 201-297-1	 Xi R37/38;  Xi R43;  F R11  Flam. Liq. 2, H225;  Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	

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

4 First aid measures

· 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.

· 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

- Rinse out mouth and then drink plenty of water.
- Do not induce vomiting; call for medical help immediately.

· Information for doctor

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

· Extinguishing media**· Suitable extinguishing agents**

Water haze

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*Foam**Fire-extinguishing powder**Carbon dioxide*

- **For safety reasons unsuitable extinguishing agents** *Water with full jet.*
- **Special hazards arising from the substance or mixture** *Can form explosive gas-air mixtures.*
- **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

- **Personal precautions, protective equipment and emergency procedures**
- Ensure adequate ventilation*
- Wear protective clothing.*
- Keep away from ignition sources*
- Avoid eye and skin contact with the substance.*
- **Environmental precautions:**
- Do not allow product to reach sewage system or any water course.*
- Do not allow to penetrate the ground/soil.*
- Do not allow to enter sewers/ surface or ground water.*
- **Methods and material for containment and cleaning up:**
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*
- Send for recovery or disposal in suitable receptacles.*
- **Reference to other sections**
- See Section 13 for disposal information.*
- See Section 8 for information on personal protection equipment.*
- See Section 7 for information on safe handling*

7 Handling and storage

- **Handling**
- **Precautions 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.*
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
- Close container immediately after use and protect product from light incidence.*
- 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.*
- **Specific end use(s)** *No further relevant information available.*

8 Exposure controls/personal protection

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

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· **Control parameters**· **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.· **Exposure controls**· **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.

Filter AX.

· **Protection of hands:** Solvent resistant 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:** Safety glasses

9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form:	Fluid
Colour:	Colourless
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· **Flammability (solid, gaseous)** Not applicable.· **Ignition temperature:** 430 °C· **Decomposition temperature:** Not determined.· **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:** Not determined

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- Organisms Species: of cell growth
(MMA) *Pseudomonas putida*
- **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
 - **Bioaccumulative potential** No further relevant information available.
 - **Mobility in soil** No further relevant information available.
 - **Additional ecological information:**
 - **General notes:**
Water hazard class 1 (German 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.
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
 - **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Must be specially treated adhering to official regulations.

- **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.
Non contaminated packagings may be recycled.

14 Transport information

- **UN-Number**
- **ADR, IMDG, IATA** UN1247
- **UN proper shipping name**
- **ADR** 1247 METHYL METHACRYLATE MONOMER, STABILIZED, mixture
- **IMDG, IATA** METHYL METHACRYLATE MONOMER, STABILIZED, mixture
- **Transport hazard class(es)**
- **ADR**
- **Class** 3 (F1) Flammable liquids.



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· Label	3
· IMDG, IATA	
	
· Class	3 Flammable liquids.
· Label	3
· Packing group	
· ADR, IMDG, IATA	II
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids.
· Danger code (Kemler):	339
· EMS Number:	F-E,S-D
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1L
· Transport category	2
· Tunnel restriction code	D/E
· UN "Model Regulation":	UN1247, METHYL METHACRYLATE MONOMER, STABILIZED, mixture, 3, II

15 Regulatory information

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

- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **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.

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R11 Highly flammable.
R37/38 Irritating to respiratory system and skin.
R43 May cause sensitisation by skin contact.

· **Department issuing MSDS: F & E**

· **Contact: Dr. U. Krichbaum**

· **Abbreviations and acronyms:**

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

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)

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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.**

GB