

Printing date 12/06/2005

Reviewed on 12/06/2005

\* **1 Identification of substance**

· Product details

- Trade name: **Marble Filler Super**
- Article number: 10714
- Application of the substance / the preparation Acrylic resin
- Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH  
Lechstrasse 28  
D 90451 Nürnberg  
Tel. +49(0)911-642960  
Fax. +49(0)911-644456  
e-mail info@akemi.de
- Information department: Laboratory

\* **2 Composition/Data on components**

- Chemical characterization:
- CAS No. Description 80-62-6 methyl methacrylate
- Identification number(s)
- EINECS Number: 201-297-1
- EU Number: 607-035-00-6
- Chemical characterization
- Dangerous components:
- 
- CAS: 38668-48-3 1,1'-(p-tolylimino)dipropan-2-ol <1%  
EINECS: 254-075-1 T; R 25-52/53

\* **3 Hazards identification**

- Hazard description: Xi Irritant  
F Highly flammable
- Information pertaining to particular dangers for man and environment: Highly flammable.  
Irritating to respiratory system and skin.  
May cause sensitization by skin contact.
- Classification system:
- NFPA ratings (scale 0 - 4) Health = 2  
Fire = 3  
Reactivity = 0
- HMIS-ratings (scale 0 - 4) Health = 2  
Fire = 3  
Reactivity = 0

**4 First aid measures**

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Clean with water and soap. If possible, also wash with polyethylene glycol 400.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.

**5 Fire fighting measures**

- Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet

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- Special hazards caused by the material, its products of combustion or resulting gases: In case of fire, the following can be released:  
Carbon monoxide (CO)  
Formation of toxic gases is possible during heating or in case of fire.
- Protective equipment: Mount respiratory protective device.
- Additional information: Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### 6 Accidental release measures

- Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection: 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.  
Dispose contaminated material as waste according to item 13.

### 7 Handling and storage

- Handling:
- Information for safe handling: Ensure good ventilation/exhaustion at the workplace.  
Keep away from heat and direct sunlight.
- Information about protection against explosions and fires: 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.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Protect from heat and direct sunlight.  
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/m<sup>3</sup>, 100 ppm  
 REL 410 mg/m<sup>3</sup>, 100 ppm  
 TLV Short-term value: 410 mg/m<sup>3</sup>, 100 ppm  
 Long-term value: 205 mg/m<sup>3</sup>, 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 eyes and skin.
  - Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation.  
Filter AX
  - Protection of hands: Protective gloves
  - Material of gloves: Butyl rubber, BR  
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.

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- 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
- Body protection: Protective work clothing

## 9 Physical and chemical properties

### · General Information

Form: Fluid  
Color: Colorless  
Odor: Ester-like

### · Change in condition

Melting point/Melting range: Undetermined.  
Boiling point/Boiling range: 101°C (214°F)

- Flash point: 10°C (50°F)
- Ignition temperature: 430°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: 2.1 Vol %  
Upper: 12.5 Vol %

- Vapor pressure at 20°C (68°F): 47 hPa (35 mm Hg)

- Density at 20°C (68°F): 1.02 g/cm<sup>3</sup>

- Solubility in / Miscibility with  
Water at 20°C (68°F): 16 g/l

- Viscosity:  
Dynamic at 20°C (68°F): 350 - 550 mPas

## 10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Dangerous reactions Exothermic polymerization.  
Reacts with peroxides and other radical forming substances.
- 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.
- on the eye: No irritating effect.
- Sensitization: Sensitization possible through skin contact.

## 12 Ecological information

- General notes: Do not allow product to reach ground water, water course or sewage system.  
Water hazard class 1 (Assessment by list): slightly hazardous for water

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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. Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

## \* 14 Transport information

- DOT regulations:
- Hazard class: 3
- Identification number: UN3269
- Packing group: III
- Proper shipping name (technical name): POLYESTER RESIN KIT
- Label: 3
  
- Land transport ADR/RID (cross-border):
- ADR/RID class: 3 (F1) Flammable liquids
- Danger code (Kemler): 33
- UN-Number: 3269
- Packaging group: III
- Description of goods: 3269 POLYESTER RESIN KIT
  
- Maritime transport IMDG:
- IMDG Class: 3
- UN Number: 3269
- Label: 3
- Packaging group: III
- EMS Number: F-E,S-D
- Marine pollutant: No
- Propper shipping name: POLYESTER RESIN KIT
  
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: 3
- UN/ID Number: 3269
- Label: 3
- Packaging group: III
- Propper shipping name: POLYESTER RESIN KIT

## \* 15 Regulations

- Sara
- Section 355 (extremely hazardous substances):  
Substance is not listed.
- Section 313 (Specific toxic chemical listings):  
80-62-6 methyl methacrylate
- TSCA (Toxic Substances Control Act):  
Substance is listed.
- Proposition 65
- Chemicals known to cause cancer:  
Substance is not listed.
- Chemicals known to cause reproductive toxicity for females:  
Substance is not listed.
- Chemicals known to cause reproductive toxicity for males:  
Substance is not listed.
- Chemicals known to cause developmental toxicity:  
Substance is not listed.

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- Carcinogeny categories
- EPA (Environmental Protection Agency) E;NL
- IARC (International Agency for Research on Cancer) 3
- NTP (National Toxicology Program)  
Substance is not listed.
- TLV (Threshold Limit Value established by ACGIH) A4
- MAK (German Maximum Workplace Concentration)  
Substance is not listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health)  
Substance is not listed.
- OSHA-Ca (Occupational Safety & Health Administration)  
Substance is not listed.
- Product related hazard informations: The product has been classified and marked in accordance with directives on hazardous materials.
- Hazard symbols: Xi Irritant  
F Highly flammable
- Hazard-determining components of labelling: methyl methacrylate
- Risk phrases: Highly flammable.  
Irritating to respiratory system and skin.  
May cause sensitization by skin contact.
- Safety phrases: Keep out of the reach of children.  
Keep away from sources of ignition - No smoking.  
Do not breathe fumes  
Avoid contact with skin and eyes.  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point  
Take precautionary measures against static discharges.  
Wear suitable gloves.  
If swallowed, seek medical advice immediately and show this container or label.  
Use only in well-ventilated areas.
- National regulations:
- Water hazard class: Water hazard class 1 (Assessment by list): 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: Laboratory
- Contact: Dieter Zimmermann
- \* Data compared to the previous version altered.