# Safety data sheet according to 1907/2006/EC, Article 31

**AKEMI®** 

according to 1907/2006/EC, Article 31

Printing date 23.10.2014 Version number 7 Revision: 23.10.2014

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

<u>Trade name:</u>
 Article number:
 Marble Filler 1000 Transparent
 10701, 10703, 10704, 10708, 10709

 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- Application of the substance / the

mixture

Reaction resin

· 1.3 Details of the supplier of the safety data sheet

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

Further information obtainable

from:

Laboratory

· 1.4 Emergency telephone

number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH

Tel. +49(0)911-64296-59

Reachable during the following office hours: Monday – Thursday from 07:30 a.m. to 16:30 p.m.

Friday from 07:30 a.m. to 13:30 p.m.

#### **SECTION 2: Hazards identification**

#### · 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

Repr. 2 H361d Suspected of damaging the unborn child.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation.

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

×

Xn; Harmful

R20-48/20-63: Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure

through inhalation. Possible risk of harm to the unborn child.

X

Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

R10: Flammable.

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· Information concerning particular

hazards for human and

Contact with skin and inhalation of aerosols/ vapours of the preparation should environment:

be avoided.

Vapours of the product are heavier than air and may accumulate on the ground,

in mines, drains or cellars with higher concentration.

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.

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

· 2.2 Label elements

· Labelling according to Regulation

(EC) No 1272/2008 · Hazard pictograms

The product is classified and labelled according to the CLP regulation.







GHS02 GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labelling:

· Hazard statements

styrene

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

H335 May cause respiratory irritation.

H372 Causes damage to organs through prolonged or repeated exposure.

· Precautionary statements

P101 If medical advice is needed, have product container or label

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

P260 Do not breathe vapours.

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

protection.

P281 Use personal protective equipment as required.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

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

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/

regional/national/international regulations.

· 2.3 Other hazards During processing and product hardening the network generator is released as

fume. Consequently, take care for adequate air conditioning and for fume exhaustion on request.

· Results of PBT and vPvB assessment

· PBT: Not applicable. · vPvB: Not applicable.

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#### **SECTION 3: Composition/information on ingredients**

#### · 3.2 Chemical characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

wintere of substances listed below with normazardous additions.	
styrene  Xn R20-48/20-63-65;  Xi R36/37/38 R10  → Flam. Liq. 3, H226; → Repr. 2, H361d; STOT RE 1, H372; Asp. Tox. 1, H304; → Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	25-50%
1,1'-(p-tolylimino)dipropan-2-ol TR25 R52/53 Acute Tox. 2, H300; Lye Irrit. 2, H319; Aquatic Chronic 3, H412	<1%
toluene  Xn R48/20-63-65; Xi R38; F R11 R67 Repr. Cat. 3  ♦ Flam. Liq. 2, H225; ♦ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; ↑ Skin Irrit. 2, H315; STOT SE 3, H336	<1%
methanol  ☐ T R23/24/25-39/23/24/25; ☐ F R11  ⑥ Flam. Liq. 2, H225; ⑥ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⑥ STOT SE 1, H370	<1%
♦ Flam. Liq. 2, H225; ♦ Eye Irrit. 2, H319; STOT SE 3, H336	<1%
	Xn R20-48/20-63-65;  Xi R36/37/38 R10

#### **SECTION 4: First aid measures**

## · 4.1 Description of first aid measures

• General information: Take affected persons out into the fresh air.

Position and transport stably in side position.

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. 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: 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. If symptoms persist,

consult a doctor.

· After swallowing: If symptoms persist consult doctor.

• 4.2 Most important symptoms and effects, both acute and

**delayed** Breathi

Breathing difficulty Headache Dizziness

Dizziness Dizziness Nausea

 $\cdot$  Information for doctor: With reference to section 2 the formulation contains styrene in the indicated

mass concentration range. Styrene fumes will preferably be incorporated by (Contd. on page 4)



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inhalation via respiratory tract, skin resorption is currently considered as an inferior way of incorporation. In case of inhalation styrene is absorbed in a 60-90% range. Distribution in organism occurs rapidly, the maximum blood concentration can be analyzed after one hour after incorporation. Styrene exposition affects skin, mucous membranes, and central nervous system (CNS). Acute damages / risks to health:

In case of styrene poisoning mainly damages to and interactions with central nervous system (CNS) arise. In concentration ranges above 200 ml/m3 symptoms such as fatigue, nausea, imbalance and prolonged response times are observed.

Chronical health risks:

Effects at central and peripheral nervous system and respiratory tract are evident in literature.

Main health risks are:

- prolonged response times
- reduced cognitive performance, partial amnesia
  retardation of nervous impulse transition speed
- disturbances of pulmonary function

Danger of impaired breathing.

Skin contact with polyester and epoxy resin solutions as ingredient of the product should be avoided due to risks of skin irritations or allergic skin appearances. If occasional hand contact can not be avoided, protection gloves, proper protection ointments and protective agents generating a protective layer on the skin were applied.

 4.3 Indication of any immediate medical attention and special treatment needed

If swallowed, gastric irrigation with added, activated carbon.

### **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

· Hazards

· Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol

resistant foam.

For safety reasons unsuitable extinguishing agents:

extinguishing agents: Water with full jet

5.2 Special hazards arising from

the substance or mixture Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide (CO) Nitrogen oxides (NOx)

Under certain fire conditions, traces of other toxic gases cannot be excluded,

e.g.:

Hydrogen cyanide (HCN)

· 5.3 Advice for firefighters

• Protective equipment: Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

Mount respiratory protective device.

· Additional information Dispose of fire debris and contaminated fire fighting water in accordance with

official regulations.

#### **SECTION 6: Accidental release measures**

 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation Keep away from ignition sources.

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Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

• 6.2 Environmental precautions: 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.

· 6.3 Methods and material for containment and cleaning up:

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.

Ensure adequate ventilation.

• 6.4 Reference to other sections See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

· 7.1 Precautions for safe

**handling** Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Use only in well ventilated areas.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier

than air).

Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and

explosion protection: Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

#### · 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by

storerooms and receptacles:

Store only in the original receptacle.

Prevent any seepage into the ground.

· Information about storage in one

common storage facility:

Store away from oxidizing agents.

Store away from foodstuffs.

· Further information about storage

conditions:

Store receptacle in a well ventilated area.

Store in a cool place.

Keep container tightly sealed.

• 7.3 Specific end use(s) No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

Additional information about

design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

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

100-42-5 styrene

WEL Short-term value: 1080 mg/m³, 250 ppm Long-term value: 430 mg/m³, 100 ppm

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108-88-3 toluene

WEL Short-term value: 384 mg/m³, 100 ppm Long-term value: 191 mg/m<sup>3</sup>, 50 ppm

67-56-1 methanol

WEL Short-term value: 333 mg/m³, 250 ppm Long-term value: 266 mg/m³, 200 ppm

141-78-6 ethyl acetate

WEL Short-term value: 400 ppm Long-term value: 200 ppm

· DNELs

100-42-5 styrene

DNEL (Langzeit-wiederholt) 2.1 mg/kg bw/day (BEV) Oral Dermal DNEL (Langzeit-wiederholt) 406 mg/kg bw/day (ARB)

343 mg/kg bw/day (BEV)

Inhalative DNEL (Kurzzeit-akut) 289-306 mg/m3 Air (ARB)

174.25-182.75 mg/m<sup>3</sup> Air (BEV)

DNEL (Langzeit-wiederholt) 85 mg/m<sup>3</sup> Air (ARB) 10.2 mg/m<sup>3</sup> Air (BEV)

· PNECs

100-42-5 styrene

PNEC (fest) 0.2 mg/kg Trockengew (BO)

0.0614 mg/kg Trockengew (MWS)

0.614 mg/kg Trockengew (SWS)

PNEC (wässrig) 5.0 mg/l (KA)

> 0.0028 mg/l (MW) 0.028 mg/l (SW)

· Additional information:

The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Protection of hands:

· Personal protective equipment:

· General protective and hygienic

measures:

Do not eat, drink, smoke or sniff while working.

Use skin protection cream for skin protection.

Clean skin thoroughly immediately after handling the product.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Filter A/P2 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.

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.



Protective gloves

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

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

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory anylyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: http://www.kcl.de).

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

Akemi skin protection agent recommendation for preventive skin shelter without use of protective gloves:

ARRETIL (http://www.stoko.com)

Akemi skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:

STOKODERM (http://www.stoko.com)

Akemi skin protection recommendation for skin cleaning after product handling:

SLIG SPEZIAL (http://www.stoko.com)

Akemi skin protection agent recommendation for skin aftercare:

STOKO VITAN (http://www.stoko.com)

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. 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

Value for the permeation: Level ≤ 1, 30 min

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

 For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR

Butoject (KCL, Art No. 897, 898)

 As protection from splashes gloves made of the following materials are suitable:

Butyl rubber, BR

Butoject (KCL, Art No. 897, 898)

• Not suitable are gloves made of the following materials:

Fluorocarbon rubber (Viton) Nitrile rubber, NBR

Nitrile rubber, NBR
Chloroprene rubber, CR
Natural rubber, NR
Leather gloves
Strong material gloves

· Eye protection:



Tightly sealed goggles

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Protective work clothing

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#### **SECTION 9: Physical and chemical properties**

· 9.1 Information on basic physical and chemical properties

· General Information

· Body protection:

· Appearance:

Form: Fluid Yellow

Odour: CharacteristicpH-value: Not applicable

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 145 °C
Flash point: 32 °C

Flash point: 32 °CIgnition temperature: 480 °C

· Self-igniting: Product is not selfigniting.

· <u>Danger of explosion:</u> Product is not explosive. However, formation of explosive air/vapour mixtures

are possible.

· Explosion limits:

<u>Lower:</u> 1.2 Vol % Upper: 8.9 Vol %

· Vapour pressure at 20 °C: 6 hPa

- Density at 20 °C: 1.13 g/cm<sup>3</sup>

· Solubility in / Miscibility with

water: Not miscible or difficult to mix.

· Viscosity:

<u>Dynamic:</u> Not determined. <u>Kinematic at 20 °C:</u> 210 s (DIN 53211/4)

· Solvent content:

Organic solvents: 34.7 %

• 9.2 Other information No further relevant information available.

#### **SECTION 10: Stability and reactivity**

· 10.1 Reactivity

· 10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

onditions to be avoided: No decomposition if used and stored according to specifications.

· 10.3 Possibility of hazardous

reactions

Exothermic polymerization.

Reacts with peroxides and other radical forming substances.

Reacts with strong acids. Reacts with strong alkali.

· 10.4 Conditions to avoid

No further relevant information available. No further relevant information available.

10.5 Incompatible materials:
 10.6 Hazardous decomposition

products:

No dangerous decomposition products known.

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#### **SECTION 11: Toxicological information**

#### · 11.1 Information on toxicological effects

· Acute toxicity:

· LD/LC50 values relevant for classification:

#### 100-42-5 styrene

Oral LD50 5000 mg/kg (rat)

LD50 Dermal >2000 mg/kg (rat) (OECD-Prüfrichtlinie 402)

Inhalative LC50/4 h 11.8 mg/l (rat) LC50/4h 9.5 mg/m3 (mouse)

· Primary irritant effect:

· on the skin: Irritant to skin and mucous membranes.

· on the eye: Irritating effect.

· Sensitization: No sensitizing effects known.

· Experience with humans: After incorporation and inhalation styrene predominantly will be metabolized in

the organism to mandelic and phenylglyoxylic acid and matabolites will pass

through urine excretion.

· 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: Harmful Irritant

· Toxicokinetics, metabolism and

distribution

After incorporation and inhalation styrene predominantly will be metabolized in the organism to mandelic and phenylglyoxylic acid and metabolites will pass

through urine excretion.

· Acute effects (acute toxicity,

irritation and corrosivity)

Styrene:

Artificial special nutrition in rat population, acute LD50 value, oral: 5000 mg/kg.

Inhalation, rat population, acute LC50 value (4h): 24 mg/l.

· CMR effects (carcinogenity, mutagenicity and toxicity for

reproduction)

Styrene

Tests for chromosome divergence:

Mouse micro-nucleus test: mutagen

Styrene:

Tests for DNA effects:

- exchange of chromatides: mutagen

- DNA chain fragmentation: mutagen

Repr. 2

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

	12.1 TOXICITY					
ſ	· Aquatic toxicity:					
	100-42-5 styrene					
	EC10	0.28 mg/l (Pseudokirchneriella subcapitata) (EPA OTS 797.1050)				
	EC10/16h	72 mg/l (pseudomonas putida)				
	EC20/0.5h	140 mg/l (BES) (OECD 209)				
	EC50	500 mg/l (BES) (ISO Vorschrift 8192-1986 E)				
		5.5 mg/l (Photobac. phosphoreum)				
	EC50/16h	> 72.0 mg mg/l (pseudomonas putida)				
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EC50/48h 0.56 mg/l (green alge)

4.7 mg/l (daphnia magna)

EC50/72h 0.46-4.3 mg/l (Pseudokirchneriella subcapitata)

EC50/72u >1-<10 mg/l (green alge)

EC50/8d > 200 mg/l (Scenedesmus quadricauda)

EC50/96h 0.15-3.2 mg/l (Pseudokirchneriella subcapitata)

IC5/8d > 200 mg/l (Scenedesmus quadricauda)

IC50/72h 4.9 mg/l (green alge)

1.4 mg mg/l (selenastrum capricornutum)

LC50/72h 4.9 mg/l (green alge) LC50/96h >1-<10 mg/l (piscis)

25.0 mg/l (lem)

32 mg/l (pimephales promelas) 4.02 mg/l (Pimephales promelas) 58.75-95.32 mg/l (poecilia reticulata)

· 12.2 Persistence and

degradability
 12.3 Bioaccumulative potential
 12.4 Mobility in soil
 No further relevant information available.
 No further relevant information available.
 No further relevant information available.

12.4 Mobility in soil
 Additional ecological information:

• General notes: Do not allow product to reach ground water, water course or sewage system.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for

water

· 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.
 vPvB: Not applicable.

• 12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation Must not be disposed together with household garbage. Do not allow product to

reach sewage system.

· European waste catalogue

20 00 00 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND

INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

20 01 00 separately collected fractions (except 15 01)

20 01 27\* paint, inks, adhesives and resins containing dangerous substances

· Uncleaned packaging:

· Recommendation: Empty contaminated packagings thoroughly. They may be recycled after

thorough and proper cleaning.

Recommended cleansing agents: Alcohol

acetone

#### **SECTION 14: Transport information**

· 14.1 UN-Number

· ADR, IMDG, IATA UN3269

· 14.2 UN proper shipping name

· ADR 3269 POLYESTER RESIN KIT

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· <u>IMDG, IATA</u> POLYESTER RESIN KIT

#### · 14.3 Transport hazard class(es)

· ADR



· <u>Class</u> 3 (F1) Flammable liquids.

· Label

· IMDG, IATA



· <u>Class</u> 3 Flammable liquids.

· Label

· 14.4 Packing group

· ADR, IMDG, IATA

· 14.5 Environmental hazards:

· Marine pollutant: No

• 14.6 Special precautions for user Warning: Flammable liquids.

Danger code (Kemler):EMS Number:F-E,S-E

· 14.7 Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: See

Transport categoryTunnel restriction codeD/E

Remarks: Without hardener component: 3/III UN 1866 Resin Solution

· IMDG

· Limited quantities (LQ) 5L

- Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

Remarks: Without hardener component: 3/III UN 1866 Resin Solution

· IATA

• Remarks: Without hardener component: 3/III UN 1866 Resin Solution

· UN "Model Regulation": UN3269, POLYESTER RESIN KIT, 3, III

#### **SECTION 15: Regulatory information**

- · 15.1 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.

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

· VOC EU

· 15.2 Chemical safety

assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 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

product features and shall not esta	ablish a legally	valid contractual relationship.
· Relevant phrases	H225 H226 H300 H301 H304 H311 H315 H319 H331 H332 H335 H336 H361d H370 H372	Highly flammable liquid and vapour. Flammable liquid and vapour. Fatal if swallowed. Toxic if swallowed. May be fatal if swallowed and enters airways. Toxic in contact with skin. Causes skin irritation. Causes serious eye irritation. Toxic if inhaled. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure.
	H412	Harmful to aquatic life with long lasting effects.
	R48/20 R52/53	Flammable. Highly flammable. Harmful by inhalation. Toxic by inhalation, in contact with skin and if swallowed. Toxic if swallowed. Irritating to eyes. Irritating to eyes, respiratory system and skin. Irritating to skin. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
· Recommended restriction of use	R63 R65 R66 R67 refer to Tech	Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. nical Data Sheet (TDS)
Department issuing MSDS:	Laboratory	modi zata Griost (126)
Dopartinont localing MODO.	_abbitatory	

Contact:

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)

ICAO: International Civil Aviation Organization

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 EINECS: European Inventory of Existing Commercial Chemical Substances

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# **AKEMI®**

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.10.2014 Version number 7 Revision: 23.10.2014

### **Trade name: Marble Filler 1000 Transparent**

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ELINCS: European List of Notified Chemical Substances

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

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2 Flam. Liq. 3: Flammable liquids, Hazard Category 3 Acute Tox. 2: Acute toxicity, Hazard Category 2 Acute Tox. 3: Acute toxicity, Hazard Category 3 Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

· \* Data compared to the previous version altered.

· International Product Registration Status

Adaptation in accordance with REACH directive 1907/2006/EC

USA (Toxic Substances Control Act, TSCA)

AUS (Australian Inventory of Chemical Substances, AICS)