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

Tel. +49(0)911-642960

Printing date 07.09.2017 Version number 8 Revision: 07.09.2017

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

· 1.1 Product identifier

· Trade name: Marble Filler 1000 Universal

10102, 10103, 10104, 10105, 10107, 10113, 10116, 10125, 10130, 10131, Article number:

10132, 10120, 10108

· 1.2 Relevant identified uses of the substance or mixture and

No further relevant information available. uses advised against

Application of the substance / the

Knife filler/ Surfacer mixture

· 1.3 Details of the supplier of the safety data sheet

AKEMI chemisch technische Spezialfabrik GmbH Manufacturer/Supplier:

Laboratory

Lechstrasse 28 D 90451 Nürnberg

Fax. +49(0)911-644456 e-mail info@akemi.de

· Further information obtainable from:

· 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.

+44 (171) 635 91 91

National Poison Inform. Centre Medical Toxicology Unit

Avalonley Road London SE14 5ER

### **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

H361d Suspected of damaging the unborn child.

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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

· 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



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Trade name: Marble Filler 1000 Universal					
· Signal word	Danger	(Contd. of page 1)			
- Signal Word	Danger				
<ul> <li>Hazard-determining components</li> </ul>					
of labelling:	styrene				
<ul> <li>Hazard statements</li> </ul>		e liquid and vapour.			
	H315 Causes sk				
		rious eye irritation.			
		of damaging the unborn child.			
		amage to the hearing organs through prolonged or repeated			
Dra coution on a statements	exposure.	If we disable divise is presided, here product container or lebel			
· Precautionary statements	P101	If medical advice is needed, have product container or label at hand.			
	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.			
	P280	Wear protective gloves / eye protection.			
	P303+P361+P353	B 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.			
	P314	Get medical advice/attention if you feel unwell.			
	P403+P235	Store in a well-ventilated place. Keep cool.			
	P405	Store locked up.			
	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			
		ntly, take care for adequate air conditioning and for fume			
<ul> <li>Results of PBT and vPvB assessm</li> </ul>					
· PBT:	Not applicable.				
· <u>vPvB:</u>	Not applicable.				

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

### · 3.2 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

<ul> <li>Dangerous components:</li> </ul>		
CAS: 100-42-5 EINECS: 202-851-5 Index number: 601-026-00-0 Reg.nr.: 01-2119457861-32	styrene 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 Aquatic Chronic 3, H412	12.5-25%
CAS: 38668-48-3 EINECS: 254-075-1 Reg.nr.: 01-2119980937-17	1,1'-(p-tolylimino)dipropan-2-ol Acute Tox. 3, H301 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	<1%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119486136-34 01-2119488216-32 01-2119555267-33	xylene (mix) Flam. Liq. 3, H226 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	<1%

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· Additional information: For the wording of the listed hazard phrases refer to section 16.

#### **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.

Immediately remove any clothing soiled by the product.

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:

A person vomiting while laying on their back should be turned onto their side.

· 4.2 Most important symptoms and effects, both acute and

delayed

Nausea Dizziness

Headache

Breathing difficulty

Dizziness

· 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 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

· Hazards

If swallowed, gastric irrigation with added, activated carbon.

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

· 5.1 Extinguishing media

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

resistant foam.

· For safety reasons unsuitable

extinguishing agents:

Water with full jet

· 5.2 Special hazards arising from

the substance or mixture Formation of to:

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.

Collect contaminated fire fighting water separately. It must not enter the sewage

system.

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

 6.1 Personal precautions, protective equipment and

**emergency procedures** Ensure adequate ventilation

Keep away from ignition sources.

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.

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

than air).

Use only in well ventilated areas.

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Information about fire - and

explosion protection:

Keep ignition sources away - Do not smoke.

Ensure good ventilation/exhaustion at the workplace.

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 oxidising agents.

Store away from foodstuffs.

· Further information about storage

conditions:

Store receptacle in a well ventilated area.

Keep container tightly sealed.

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

### **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/m<sup>3</sup>, 250 ppm

Long-term value: 430 mg/m<sup>3</sup>, 100 ppm

1330-20-7 xylene (mix)

WEL Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m<sup>3</sup>, 50 ppm

Sk; BMGV

· 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)

289-306 mg/m3 Air (ARB)

Inhalative DNEL (Kurzzeit-akut) 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/m3 Air (BEV)

· PNECs

100-42-5 styrene

PNEC (wässrig) 5 mg/l (KA)

0.014 mg/l (MW)

0.028 mg/l (SW) 0.04 mg/I (WAS)

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

0.307 mg/kg Trockengew (MWS)

0.614 mg/kg Trockengew (SWS)

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· Ingredients with biological limit values:

1330-20-7 xylene (mix)

BMGV 650 mmol/mol creatinine

Medium: urine

Sampling time: post shift Parameter: methyl hippuric acid

Additional information:

The lists valid during the making were used as basis.

· 8.2 Exposure controls

· 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.

· Respiratory protection:

Short term filter device:

Filter A/P2

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.

· Protection of hands:

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

Skin protection agent recommendation for preventive skin shelter without use of

protective gloves:

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

Skin protection agent recommendation for preventive skin shelter in application

and combination of protective gloves: STOKO EMULSION (http://www.stoko.com)

Skin protection recommendation for skin cleaning after product handling:

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

Skin protection agent recommendation for skin aftercare:

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

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).



Protective gloves

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

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

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

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 Material of gloves Butyl rubber, BR (Contd. of page 6)

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.

Value for the permeation: Level ≤ 1, 30 min · 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.

· 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)

Natural rubber, NR Nitrile rubber, NBR Chloroprene rubber, CR

Leather gloves Rubber gloves

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

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

|--|

· General Information

· Appearance:

Form: Fluid

Colour: Different according to colouring

· Odour: Characteristic

· Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: 145°C

32°C Flash point:

480°C · Ignition temperature:

Product is not selfigniting. Auto-ignition temperature:

Product is not explosive. However, formation of explosive air/vapour · Explosive properties:

mixtures are possible.

· Explosion limits:

1.2 Vol % Lower: 8.9 Vol % Upper:

· Vapour pressure at 20°C: 6 hPa

· Density at 20°C: 1.73 g/cm<sup>3</sup> ([1,69 - 1,73 g/cm<sup>3</sup>])

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Trade name:	Marble	Filler	1000	Universal

		(Contd. of page 7)
Solubility in / Miscibility with water:	Not miscible or difficult to mix.	
Viscosity:     Dynamic at 20°C:     Kinematic:	18,000 mPas Not determined.	
Solvent content:     Organic solvents:	14.1 %	
Solids content: • 9.2 Other information	83.9 % No further relevant information available.	

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

• 10.1 Reactivity No further relevant information available.

10.2 Chemical stability
 Thermal decomposition /

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

· 10.3 Possibility of hazardous

reactions

Exothermic polymerisation.

Reacts with peroxides and other radical forming substances.

Reacts with strong alkali. Reacts with strong acids.

· 10.4 Conditions to avoid · 10.5 Incompatible materials: No further relevant information available. No further relevant information available.

10.6 Hazardous decomposition

**products:** No dangerous decomposition products known.

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

· 11.1 Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

#### · LD/LC50 values relevant for classification:

### ATE (Acute Toxicity Estimates)

Oral	LD50	<2,602 mg/kg (rat)
Dermal	LD50	>14,744 mg/kg (rat)
Inhalative	LC50/4 h	87 mg/l (rat)

1	OO-	42-5	i stv	ren	6

ı	100-42-3	100-42-3 Stylene				
ſ	Oral LD50 >2,000 mg/kg (rat)					
	Dermal	Dermal LD50 >2,000 mg/kg (rat) (OECD-Prüfrichtlinie 402)				
	Inhalative LC50/4h 9.5 mg/m3 (mouse)					
	LC50/4 h 11.8 mg/l (rat)					
	NOAEC 4.34 mg/l (rat)					

· Primary irritant effect:

• Skin corrosion/irritation Causes skin irritation.

· Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

• 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.

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

· 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.

 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: mutagenDNA chain fragmentation: mutagen

Germ cell mutagenicity
 Carcinogenicity
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.

• Reproductive toxicity Suspected of damaging the unborn child.

• STOT-single exposure Based on available data, the classification criteria are not met.

• <u>STOT-repeated exposure</u> Causes damage to the hearing organs through prolonged or repeated exposure.

· Aspiration hazard Based on available data, the classification criteria are not met.

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

### · 12.1 Toxicity

100-42-5 styrene	· Aquatic tox	- Aquatic toxicity:				
EC50 500 mg/l (BES) (ISO Vorschrift 8192-1986 E) 5.5 mg/l (Photobac. phosphoreum)  IC50/72h 4.9 mg/l (green alge) 1.4 mg/l (selenastrum capricornutum)  IC5/8d >200 mg/l (Scenedesmus quadricauda)  EC10/16h 72 mg/l (pseudomonas putida)  EC50/8d >72 mg/l (pseudomonas putida)  > 200 mg/l (Scenedesmus quadricauda)  EC50/8d >200 mg/l (Scenedesmus quadricauda)  > 200 mg/l (Green alge)  EC20/0.5h 140 mg/l (green alge)  EC20/0.5h NOEC/21d 1.01 mg/l (daphnia magna)  EC10 0.28 mg/l (Pseudokirchneriella subcapitata) (EPA OTS 797.1050)  EC50/48h 0.46-4.3 mg/l (green alge) 3.3-7.4 mg/l (daphnia magna)  EC50/72h 0.46-4.3 mg/l (Pseudokirchneriella subcapitata)  EC50/96h >1-<10 mg/l (piscis) 19.03-33.53 mg/l (lem)	100-42-5 st	2-5 styrene				
5.5 mg/l (Photobac. phosphoreum)  IC50/72h 4.9 mg/l (green alge) 1.4 mg/l (selenastrum capricornutum)  IC5/8d >200 mg/l (Scenedesmus quadricauda)  EC10/16h 72 mg/l (pseudomonas putida)  EC50/16h >72 mg/l (pseudomonas putida)  EC50/8d >200 mg/l (Scenedesmus quadricauda)  EC50/72u >1-<10 mg/l (green alge)  EC20/0.5h 140 mg/l (BES) (OECD 209)  NOEC/21d 1.01 mg/l (daphnia magna)  EC10 0.28 mg/l (Pseudokirchneriella subcapitata) (EPA OTS 797.1050)  EC50/48h 0.56 mg/l (green alge) 3.3-7.4 mg/l (daphnia magna)  EC50/72h 0.46-4.3 mg/l (Pseudokirchneriella subcapitata)  EC50/96h >1-<10 mg/l (piscis) 19.03-33.53 mg/l (lem)	EC50/96h	96h 0.15-3.2 mg/l (Pseudokirchneriella subcapitata)				
IC50/72h 4.9 mg/l (green alge) 1.4 mg/l (selenastrum capricornutum) IC5/8d >200 mg/l (Scenedesmus quadricauda) EC10/16h 72 mg/l (pseudomonas putida) EC50/16h >72 mg/l (pseudomonas putida) EC50/8d >200 mg/l (Scenedesmus quadricauda) EC50/72u >1-<10 mg/l (green alge) EC20/0.5h NOEC/21d 1.01 mg/l (daphnia magna) EC10 0.28 mg/l (Pseudokirchneriella subcapitata) (EPA OTS 797.1050) EC50/48h 0.56 mg/l (green alge) 3.3-7.4 mg/l (daphnia magna) EC50/72h 0.46-4.3 mg/l (Pseudokirchneriella subcapitata) LC50/96h >1-<10 mg/l (piscis) 19.03-33.53 mg/l (lem)	EC50	500 mg/l (BES) (ISO Vorschrift 8192-1986 E)				
1.4 mg/l (selenastrum capricornutum)  IC5/8d >200 mg/l (Scenedesmus quadricauda)  EC10/16h 72 mg/l (pseudomonas putida)  EC50/16h >72 mg/l (pseudomonas putida)  EC50/8d >200 mg/l (Scenedesmus quadricauda)  EC50/72u >1-<10 mg/l (green alge)  EC20/0.5h 140 mg/l (BES) (OECD 209)  NOEC/21d 1.01 mg/l (daphnia magna)  EC10 0.28 mg/l (Pseudokirchneriella subcapitata) (EPA OTS 797.1050)  EC50/48h 0.56 mg/l (green alge)  3.3-7.4 mg/l (daphnia magna)  EC50/72h 0.46-4.3 mg/l (Pseudokirchneriella subcapitata)  LC50/96h >1-<10 mg/l (piscis)  19.03-33.53 mg/l (lem)		5.5 mg/l (Photobac. phosphoreum)				
IC5/8d >200 mg/l (Scenedesmus quadricauda) EC10/16h 72 mg/l (pseudomonas putida) EC50/16h >72 mg/l (pseudomonas putida) EC50/8d >200 mg/l (Scenedesmus quadricauda) EC50/72u >1-<10 mg/l (green alge) EC20/0.5h 140 mg/l (BES) (OECD 209) NOEC/21d 1.01 mg/l (daphnia magna) EC10 0.28 mg/l (Pseudokirchneriella subcapitata) (EPA OTS 797.1050) EC50/48h 0.46-4.3 mg/l (green alge) 3.3-7.4 mg/l (daphnia magna) EC50/72h 0.46-4.3 mg/l (Pseudokirchneriella subcapitata) LC50/96h >1-<10 mg/l (piscis) 19.03-33.53 mg/l (lem)	IC50/72h	4.9 mg/l (green alge)				
EC10/16h EC50/16h FC50/8d FC50/8d FC50/72u FC20/0.5h FC20/0.5h FC10 FC10 FC10 FC10 FC10 FC10 FC10 FC10		1.4 mg/l (selenastrum capricornutum)				
EC50/16h >72 mg/l (pseudomonas putida) EC50/8d >200 mg/l (Scenedesmus quadricauda) EC50/72u >1-<10 mg/l (green alge) EC20/0.5h 140 mg/l (BES) (OECD 209) NOEC/21d 1.01 mg/l (daphnia magna) EC10 0.28 mg/l (Pseudokirchneriella subcapitata) (EPA OTS 797.1050) EC50/48h 0.56 mg/l (green alge) 3.3-7.4 mg/l (daphnia magna) EC50/72h 0.46-4.3 mg/l (Pseudokirchneriella subcapitata) EC50/96h >71-<10 mg/l (piscis) 19.03-33.53 mg/l (lem)	IC5/8d	>200 mg/l (Scenedesmus quadricauda)				
EC50/8d >200 mg/l (Scenedesmus quadricauda)  EC50/72u >1-<10 mg/l (green alge)  EC20/0.5h 140 mg/l (BES) (OECD 209)  NOEC/21d 1.01 mg/l (daphnia magna)  EC10 0.28 mg/l (Pseudokirchneriella subcapitata) (EPA OTS 797.1050)  EC50/48h 0.56 mg/l (green alge)  3.3-7.4 mg/l (daphnia magna)  EC50/72h 0.46-4.3 mg/l (Pseudokirchneriella subcapitata)  LC50/96h >1-<10 mg/l (piscis)  19.03-33.53 mg/l (lem)	EC10/16h	72 mg/l (pseudomonas putida)				
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NOEC/21d 1.01 mg/l (daphnia magna) EC10 0.28 mg/l (Pseudokirchneriella subcapitata) (EPA OTS 797.1050) 0.56 mg/l (green alge) 3.3-7.4 mg/l (daphnia magna) EC50/72h 0.46-4.3 mg/l (Pseudokirchneriella subcapitata) LC50/96h >1-<10 mg/l (piscis) 19.03-33.53 mg/l (lem)	EC50/72u	>1-<10 mg/l (green alge)				
EC10 0.28 mg/l (Pseudokirchneriella subcapitata) (EPA OTS 797.1050)  EC50/48h 0.56 mg/l (green alge) 3.3-7.4 mg/l (daphnia magna)  EC50/72h 0.46-4.3 mg/l (Pseudokirchneriella subcapitata)  LC50/96h >1-<10 mg/l (piscis) 19.03-33.53 mg/l (lem)	EC20/0.5h	140 mg/l (BES) (OECD 209)				
EC50/48h	NOEC/21d	1.01 mg/l (daphnia magna)				
3.3-7.4 mg/l (daphnia magna)  EC50/72h LC50/96h LC50/96h 19.03-33.53 mg/l (lem)	EC10	0.28 mg/l (Pseudokirchneriella subcapitata) (EPA OTS 797.1050)				
EC50/72h 0.46-4.3 mg/l (Pseudokirchneriella subcapitata) LC50/96h >1-<10 mg/l (piscis) 19.03-33.53 mg/l (lem)	EC50/48h	0.56 mg/l (green alge)				
LC50/96h >1-<10 mg/l (piscis) 19.03-33.53 mg/l (lem)		3.3-7.4 mg/l (daphnia magna)				
19.03-33.53 mg/l (lem)	EC50/72h	0.46-4.3 mg/l (Pseudokirchneriella subcapitata)				
	LC50/96h	>1-<10 mg/l (piscis)				
2.24.4.00 mg/l (nimonhalos promolas)		19.03-33.53 mg/l (lem)				
3.24-4.33 mg/i (pimephales prometas)		3.24-4.99 mg/l (pimephales promelas)				
6.75-14.5 mg/l (Pimephales promelas)		6.75-14.5 mg/l (Pimephales promelas)				
58.75-95.32 mg/l (poecilia reticulata)		58.75-95.32 mg/l (poecilia reticulata)				
LC50/72h 4.9 mg/l (green alge) • 12.2 Persistence and						

· 12.2 Persistence and

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

(Contd. on page 10)



(Contd. of page 9)

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

Printing date 07.09.2017 Version number 8 Revision: 07.09.2017

Trade name: Marble Filler 1000 Universal

· 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

 $\begin{array}{ccc} \cdot & \underline{\mathsf{PBT:}} & & \mathsf{Not applicable.} \\ \cdot & \underline{\mathsf{vPvB:}} & & \mathsf{Not applicable.} \end{array}$ 

• 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 hazardous 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	U	N-N	lum	ber

· ADR, IMDG, IATA UN3269

· 14.2 UN proper shipping name

· ADR 3269 POLYESTER RESIN KIT POLYESTER RESIN KIT

· 14.3 Transport hazard class(es)

· ADR



· Class 3 (FT3) Flammable liquids.

· Label

· IMDG, IATA



· Class 3 Flammable liquids.

· Label 3

· 14.4 Packing group

· ADR, IMDG, IATA

(Contd. on page 11)



according to 1907/2006/EC, Article 31

Printing date 07.09.2017 Version number 8 Revision: 07.09.2017

١			(Contd. of page 10)
	<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No	
۱	· 14.6 Special precautions for user	Warning: Flammable liquids.	
١	Danger code (Kemler):      Danger code (Kemler):	- 	

- EMS Number: F-E,S-D - Stowage Category A

• 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

· Transport/Additional information:

Trade name: Marble Filler 1000 Universal

· ADR

• <u>Limited quantities (LQ)</u> 5L

• Excepted quantities (EQ) Code: See

Transport categoryTunnel restriction code

• Remarks: Without hardener component: no dangerous goods < 450 l

IMDG

· Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: See SP340

Remarks: Without hardener component: no dangerous goods < 30 l

· IATA

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

· UN "Model Regulation": UN 3269 POLYESTER RESIN KIT, 3, III

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

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

· Named dangerous substances -

ANNEX I

None of the ingredients is listed.

Seveso category

P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the

application of lower-tier

requirements 5,000 t

· Qualifying quantity (tonnes) for the

application of upper-tier

requirements 50,000 t

- REGULATION (EC) No 1907/2006

ANNEX XVII Conditions of restriction: 3

· National regulations:

· Information about limitation of use: Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be

observed.

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

· VOC EU 244.7 g/l

· 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.

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### **AKEMI**®

(Contd. of page 11)

### Safety data sheet

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

Printing date 07.09.2017 Version number 8 Revision: 07.09.2017

Trade name: Marble Filler 1000 Universal

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eve irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H361d Suspected of damaging the unborn child.

H372 Causes damage to the hearing organs through prolonged or repeated

H412 Harmful to aquatic life with long lasting effects.

· Recommended restriction of use

refer to Technical Data Sheet (TDS)

· Department issuing SDS:

· Relevant phrases

Laboratory

· Contact:

Dieter Zimmermann

Elke Hake

Fon ++49 (0)911 64296-59 @mail E.Hake@akemi.de

· 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 Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (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 Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

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

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids - Category 3 Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Repr. 2: Reproductive toxicity - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

Data compared to the previous version altered.

Adaptation in accordance with REACH directive 1907/2006/EC

GB