

Printing date 01/22/2014 Reviewed on 01/22/2014

1 Identification

· Product identifier

· Trade name: Marble Filler 1000 Transparent L-Special

Waterclear

· Article number: 10722

· Relevant identified uses of the substance or mixture and uses

advised against

No further relevant information available.

- Application of the substance / the

Knife filler/ Surfacer mixture

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH

Tel. +49(0)911-642960 Fax. +49(0)911-644456 Lechstrasse 28 D 90451 Nürnberg e-mail info@akemi.de

· Information department: Laboratory

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH · Emergency telephone number:

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.

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 Health hazard

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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A 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



Harmful

Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation.



Irritant

Irritating to eyes, respiratory system and skin.

Flammable.

Information concerning particular

hazards for human and

environment:

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

in mines, drains or cellars with higher concentration.

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

be avoided.

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.

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· <u>Classification system:</u> The classification was made according to the latest editions of international

substances lists, and expanded upon from company and literature data.

· Label elements

Labelling according to EU

guidelines:

The product has been classified and marked in accordance with directives on

hazardous materials.

Code letter and hazard designation of product:



Xn Harmful

Hazard-determining components

of labeling:

styrene

Risk phrases:

Flammable.

Harmful by inhalation.

Irritating to eyes, respiratory system and skin.

Harmful: danger of serious damage to health by prolonged exposure through

inhalation.

Safety phrases:

Keep out of the reach of children.

Do not breathe vapour.

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

Wear suitable protective clothing, gloves and eye/face protection. In case of insufficient ventilation, wear suitable respiratory equipment.

If swallowed, seek medical advice immediately and show this container or label.

Use only in well-ventilated areas.

· Classification system:

· NFPA ratings (scale 0 - 4)

2 0

 $\begin{aligned} & \text{Health} = 2 \\ & \text{Fire} = 3 \\ & \text{Reactivity} = 0 \end{aligned}$

· HMIS-ratings (scale 0 - 4)

HEALTH *2 FIRE 3 FREACTIVITY 0

*2 Health = *2 3 Fire = 3 Reactivity = 0

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

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

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:

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	<u> </u>	(Conto	d. of page 2)
ſ	CAS: 100-42-5	styrene	25-50%
۱	EINECS: 202-851-5	Xn R20-48/20-65; Xi R36/37/38	
	Index number: 601-026-00-0		
۱		♠ Flam, Lig. 3, H226; ♦ STOT RE 1, H372; Asp. Tox. 1, H304; ♦ Acute	
		♦ Flam. Liq. 3, H226; ♦ STOT RE 1, H372; Asp. Tox. 1, H304; ♦ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
ŀ	CAS: 112-34-5	2-(2-butoxyethoxy)ethanol	<1%
	EINECS: 203-961-6	💌 Xi R36	
	Index number: 603-096-00-8		
	. Additional information:	For the wording of the listed risk phrases refer to section 16	

For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

Description of first aid measures

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

Position and transport stably on side.

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.

Supply fresh air. If required, provide artificial respiration. Keep patient warm. After inhalation:

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.

Rinse opened eye for several minutes under running water. If symptoms persist, · After eye contact:

consult a doctor.

· After swallowing:

If symptoms persist consult doctor. · 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

· Most important symptoms and effects, both acute and delayed

Headache

Breathing difficulty Profuse sweating

Dizziness Dizziness Nausea Coughing

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Danger of impaired breathing. Danger

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.

· Indication of any immediate medical attention and special

treatment needed

If swallowed, gastric irrigation with added, activated carbon. If swallowed or in case of vomiting, danger of entering the lungs.

5 Fire-fighting measures

· Extinguishing media

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

alcohol resistant foam.

Water with full jet

· For safety reasons unsuitable

extinguishing agents:

· 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)

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

· Advice for firefighters

· Protective equipment: Wear self-contained respiatory 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.

6 Accidental release measures

· 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.

· 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.

· Methods and material for

containment and cleaning up: Dispose of the collected material 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.

· 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.

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7 Handling and storage

· Handling:

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.

Ensure good ventilation/exhaustion at the workplace.

· Information about protection

<u>against explosions and fires:</u> Fumes can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· Conditions for safe storage, including any incompatibilities

· Storage:

Requirements to be met by

<u>storerooms and receptacles:</u> 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.

Keep receptacle tightly sealed.

· Storage class:

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

8 Exposure controls/personal protection

· Additional information about

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

· Control parameters

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

100-42-5 styrene

PEL Long-term value: 100 ppm

Ceiling limit value: 200; 600* ppm

*5-min peak in any 3 hrs

REL Short-term value: 425 mg/m³, 100 ppm

Long-term value: 215 mg/m³, 50 ppm

V Short-term value: 170 mg/m³, 40 ppm

Long-term value: 85 mg/m³, 20 ppm

BEI

112-34-5 2-(2-butoxyethoxy)ethanol

TLV Long-term value: 67.5* mg/m³, 10* ppm

*Inhalable fraction and vapor

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· Ingredients with biological limit values:

100-42-5 styrene

BEI 400 mg/g creatinine

Medium: urine Time: end of shift

Parameter: Mandelic acid plus phenylglyoxylic acid (nonspecific)

0.2 mg/L

Medium: venous blood Time: end of shift

Parameter: Styrene (semi-quantitative)

Additional information:

The lists that were valid during the creation were used as basis.

· 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.

· Breathing equipment:

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 respiratory protective device that is

independent of circulating air.

· Protection of hands:

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

Preventive skin protection by use of skin-protecting agents is recommended. 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: STOKO EMULSION (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)



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

· Material of gloves Fluorocarbon rubber (Viton)

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.

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· Penetration time of glove material Value for the permeation: Level ≤ 6, 480 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:

Fluorocarbon rubber (Viton) Vitoject (KCL, Art No. 890)

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

suitable:

Fluorocarbon rubber (Viton) Vitoject (KCL, Art No. 890)

Nitrile rubber, NBR

Camatril (KCL, 730, 731, 732, 733)

· Not suitable are gloves made of the following materials:

Natural rubber, NR

Chloroprene rubber, CR

Leather gloves Strong gloves

· Eye protection:

Tightly sealed goggles

- Body protection: Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties

General Information

· Appearance:

Form: Pasty
Color: Colorless
Odor: Characteristic

· pH-value: Not applicable

· Change in condition

Melting point/Melting range: Undetermined. Boiling point/Boiling range: 145 °C (293 °F)

• Flash point: 32 °C (90 °F)

· Ignition temperature: 370 °C (698 °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:

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

· Vapor pressure at 20 °C (68 °F): 6 hPa (5 mm Hg)

- Density at 20 °C (68 °F): 1.16 g/cm³ (9.68 lbs/gal)

· Specific gravity at 20 °C (68 °F): 1.16 g/cm³ (9.68 lbs/gal)

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

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· <u>Viscosity:</u> <u>Dynamic:</u>	Not determined. Not applicable	
Kinematic:	Not determined.	
· Solvent separation test	Not applicable	
Solvent content: Organic solvents:	31.6 %	
Solids content: Other information	67.4 % No further relevant information available.	

10 Stability and reactivity

Reactivity

Chemical stability

Thermal decomposition /

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

Possibility of hazardous

reactions

Exothermic polymerization.

Reacts with peroxides and other radical forming substances.

Reacts with alkali (lyes). Reacts with acids.

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

· Hazardous decomposition

products:

Carbon monoxide and carbon dioxide

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC5	0 values tha	at are relevant for classification:	
100-42	-5 styrene		
Oral	LD50	5000 mg/kg (rat)	

Dermal LD50 >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:

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

Irritating effect. · on the eye:

· 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 internally approved

calculation methods for preparations:

Harmful

Irritant

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· Carcinogenic categories

None of the ingredients is listed.

· IARC (Inte	rnational Agency for Research on Cancer)	
100-42-5	styrene	2B
7631-86-9	silicon dioxide, chemically prepared	3
· NTP (Natio	nal Toxicology Program)	

12 Ecological information

· Toxicity

- Aquatic toxicity: 100-42-5 styrene EC10
EC10
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) 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) > 200 mg/l (Scenedesmus quadricauda)
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EC50/72u >1-<10 mg/l (green alge) > 200 mg/l (Scenedesmus quadricauda)
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)

• Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential
 Mobility in soil
 No further relevant information available.
 No further relevant information available.

· Additional ecological information:

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

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

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

• Other adverse effects No further relevant information available.

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13 Disposal considerations

· Waste treatment methods

• Recommendation: Must not be disposed of together with household garbage. Do not allow product

to reach sewage system.

· Uncleaned packagings:

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

thorough and proper cleaning.

- Recommended cleansing agent: Alcohol

acetone

14 Transport information

· <u>UN-Number</u> · DOT, ADR, IMDG, IATA UN3269

· UN proper shipping name

DOT
ADR
IMDG, IATA
Polyester resin kit
3269 Polyester resin kit
POLYESTER RESIN KIT

· Transport hazard class(es)

· DOT



· Class 3 Flammable liquids.

- Label

ADR



· Class 3 (FT3) Flammable liquids

· Label 3

· IMDG, IATA



· Class 3 Flammable liquids.

· Label

· Packing group

- DOT, ADR, IMDG, IATA

· Environmental hazards:

Marine pollutant:

• Special precautions for user Warning: Flammable liquids

- Danger code (Kemler):

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Safety Data Sheet acc. to OSHA HCS

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• EMS Number: F-E,S-D

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

• UN "Model Regulation": UN3269, Polyester resin kit, 3, III

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara
- · Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

100-42-5 styrene

TSCA (Toxic Substances Control Act):

All ingredients are listed.

- Proposition 65
- Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- Cancerogenity categories
- EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

100-42-5 styrene

A4

- · MAK (German Maximum Workplace Concentration)
- 100-42-5 styrene

5

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Product related hazard

informations:

The product has been classified and marked in accordance with directives on hazardous materials.

· Hazard symbols:



Xn Harmful

Hazard-determining components of labeling:

· Risk phrases:

styrene

Flammable.

Harmful by inhalation.

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Irritating to eyes, respiratory system and skin.

Harmful: danger of serious damage to health by prolonged exposure through

inhalation.

Keep out of the reach of children. · Safety phrases:

Do not breathe vapour.

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

Wear suitable protective clothing, gloves and eye/face protection. In case of insufficient ventilation, wear suitable respiratory equipment.

If swallowed, seek medical advice immediately and show this container or label.

Use only in well-ventilated areas.

· National regulations:

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

Employment restrictions concerning pregnant and lactating women must be

observed.

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

367.8 g/l / 3.07 lb/gl VOC USA

· 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.

· Department issuing MSDS: Laboratory

· Contact: Dieter Zimmermann · Date of preparation / last revision 01/22/2014 / -

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de · Abbreviations and acronyms:

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

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists 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)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent