

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/16/2025

Reviewed on 05/16/2025

1 Identification

· Product identifier

· Trade name: **Marble Filler S-Soft Travertine Light Ivory**

· Article number: 10527

· Application of the substance / the mixture Knife filler/ Surfacers

· 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

· Information department: Laboratory

· 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.

2 Hazard(s) identification

· Classification of the substance or mixture

Flammable Liquids 3	H226 Flammable liquid and vapor.
Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Sensitization - Skin 1	H317 May cause an allergic skin reaction.
Carcinogenicity 1B	H350 May cause cancer.
Toxic to Reproduction 2	H361 Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity - Repeated Exposure 1	H372 Causes damage to the hearing organs through prolonged or repeated exposure.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS02 GHS07 GHS08

· Signal word

Danger

· Hazard-determining components of labeling:

styrene
maleic anhydride
talc
toluene

· Hazard statements

H226 Flammable liquid and vapor.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H350 May cause cancer.
H361 Suspected of damaging fertility or the unborn child.
H372 Causes damage to the hearing organs through prolonged or repeated exposure.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260 Do not breathe vapours.

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

Classification system:

· NFPA ratings (scale 0 - 4)



Health = 2
Fire = 3
Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *2
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

· PBT: Not applicable.

· vPvB: Not applicable.

3 Composition/information on ingredients**Chemical characterization: Mixtures**

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

Dangerous components:

CAS: 14807-96-6 EINECS: 238-877-9	talc Carcinogenicity 1B, H350
CAS: 100-42-5 EINECS: 202-851-5 Index number: 601-026-00-0	styrene Flammable Liquids 3, H226 Carcinogenicity 1B, H350; Toxic to Reproduction 2, H361; Specific Target Organ Toxicity - Repeated Exposure 1, H372; Aspiration Hazard 1, H304 Acute Toxicity - Inhalation 4, H332; Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335
CAS: 38668-48-3 EINECS: 254-075-1	1,1'-(p-tolylimino)dipropen-2-ol Acute Toxicity - Oral 2, H300 Eye Damage 1, H318
CAS: 108-88-3 EINECS: 203-625-9 Index number: 601-021-00-3	toluene Flammable Liquids 2, H225 Toxic to Reproduction 2, H361; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304 Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336
CAS: 108-31-6 EINECS: 203-571-6 Index number: 607-096-00-9	maleic anhydride Sensitization - Respiratory 1, H334; Specific Target Organ Toxicity - Repeated Exposure 1, H372 Skin Corrosion 1B, H314; Eye Damage 1, H318 Acute Toxicity - Oral 4, H302; Sensitization - Skin 1A, H317

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4 First-aid measures**· Description of first aid measures****· General information:**

Take affected persons out into the fresh air.

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.

· 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.

· 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

Dizziness

Dizziness

Nausea

· Danger

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.

· Indication of any immediate medical attention and special treatment needed

If swallowed, gastric irrigation with added, activated carbon.

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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.

· For safety reasons unsuitable extinguishing agents:

Water with full jet

· 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 (NO_x)

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

Hydrogen cyanide (HCN)

· 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.

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 section 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.

· Protective Action Criteria for Chemicals

· PAC-1:

471-34-1	calcium carbonate	45 mg/m ³
100-42-5	styrene	20 ppm
13463-67-7	titanium dioxide	30 mg/m ³
112945-52-5	Hochdisperse Kieselsäure, synthetisches röntgenamorphes Siliciumdioxid	18 mg/m ³
108-88-3	toluene	67 ppm
20344-49-4	iron hydroxide oxide	24 mg/m ³

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141-78-6	ethyl acetate	1,200 ppm
67-56-1	methanol	530 ppm
1309-37-1	diiron trioxide	15 mg/m ³
1317-61-9	triiron tetraoxide	21 mg/m ³
108-31-6	maleic anhydride	0.20 ppm
85-44-9	phthalic anhydride	0.005 mg/m ³

· PAC-2:

471-34-1	calcium carbonate	210 mg/m ³
100-42-5	styrene	130 ppm
13463-67-7	titanium dioxide	330 mg/m ³
112945-52-5	Hochdisperse Kieselsäure, synthetisches röntgenamorphes Siliciumdioxid	100 mg/m ³
108-88-3	toluene	560 ppm
20344-49-4	iron hydroxide oxide	260 mg/m ³
141-78-6	ethyl acetate	1,700 ppm
67-56-1	methanol	2100 ppm
1309-37-1	diiron trioxide	360 mg/m ³
1317-61-9	triiron tetraoxide	230 mg/m ³
108-31-6	maleic anhydride	5.0 ppm
85-44-9	phthalic anhydride	260 mg/m ³

· PAC-3:

471-34-1	calcium carbonate	1,300 mg/m ³
100-42-5	styrene	1100 ppm
13463-67-7	titanium dioxide	2,000 mg/m ³
112945-52-5	Hochdisperse Kieselsäure, synthetisches röntgenamorphes Siliciumdioxid	630 mg/m ³
108-88-3	toluene	3700 ppm
20344-49-4	iron hydroxide oxide	1,600 mg/m ³
141-78-6	ethyl acetate	10000** ppm
67-56-1	methanol	7200 ppm
1309-37-1	diiron trioxide	2,200 mg/m ³
1317-61-9	triiron tetraoxide	1,400 mg/m ³
108-31-6	maleic anhydride	20 ppm
85-44-9	phthalic anhydride	1600 mg/m ³

*

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.

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 protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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· **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 foodstuffs.

· Further information about storage
conditions:

Store receptacle in a well ventilated area.
Store in a cool place.
Keep receptacle tightly sealed.

· Storage class:

3

· **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 section 7.

· **Control parameters**

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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

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/m ³ , 100 ppm Long-term value: 215 mg/m ³ , 50 ppm
TLV	Short-term value: 20 ppm Long-term value: 10 ppm BEI, OTO, A3

108-88-3 toluene

PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV	Long-term value: 20 ppm BEI, OTO, A4

108-31-6 maleic anhydride

PEL	Long-term value: 1 mg/m ³ , 0.25 ppm
REL	Long-term value: 1 mg/m ³ , 0.25 ppm
TLV	Long-term value: 0.01* mg/m ³ , 0.0025 ppm DSEN, RSEN; *inh. fraction + vapor, A4

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· Ingredients with biological limit values:**100-42-5 styrene**

BEI 150 mg/g creatinine
 Medium: urine
 Time: end of shift
 Parameter: Mandelic acid plus phenylglyoxylic acid (non-specific)

20 µg/L
 Medium: urine
 Time: end of shift
 Parameter: Styrene

108-88-3 toluene

BEI 0.02 mg/L
 Medium: blood
 Time: prior to last shift of workweek
 Parameter: Toluene

0.03 mg/L
 Medium: urine
 Time: end of shift
 Parameter: Toluene

0.3 mg/g creatinine
 Medium: urine
 Time: end of shift
 Parameter: o-Cresol with hydrolysis (background)

· 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:

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:

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

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

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

Travabon Special PURE (<http://www.debstoko.com>)

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

Stokoderm Protect PURE (<http://www.debstoko.com>)

Skin protection agent recommendation for skin aftercare:

Solopol GFX (<http://www.debstoko.com>)Kresto Classic (<http://debstoko.com>)

Skin protection recommendation for skin cleaning after product handling:

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Stokolan Light PURE (<http://www.debstoko.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 analyses 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

· 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 materialValue for the permeation: Level \leq 1, 30 min

The exact break through 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

Chloroprene rubber, CR

Leather gloves

Strong gloves

· Eye protection:**Tightly sealed goggles**· Body protection:

Protective work clothing

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* 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· General Information

· Appearance:

Form: Pasty
 Color: Different according to coloring
 Odor: Characteristic

· pH-value: Not determined.
 Not applicable

· Change in condition

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

· Flash point: 32 °C (89.6 °F)

· Auto igniting: 480 °C (896 °F)

· Ignition temperature: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Explosion limits:

Lower: 1.2 Vol %
 Upper: 8.9 Vol %

· Vapor pressure at 20 °C (68 °F): 6 hPa (4.5 mm Hg)

· Density at 20 °C (68 °F): 1.7 g/cm³ (14.19 lbs/gal) ([1,69 - 1,72 g/cm³])

· Specific gravity at 20 °C (68 °F): 1.7 g/cm³ (14.19 lbs/gal)

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Viscosity:

Dynamic: Not determined.
 Not applicable
 Kinematic: Not determined.
 Not applicable

· Solvent content:

Organic solvents: 15.4 %

Solids content: 81.8 %

· **Other information**

No further relevant information available.

* 10 Stability and reactivity

· **Reactivity**

No further relevant information available.

· **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 strong acids.
 Reacts with strong alkali.

· **Conditions to avoid**

No further relevant information available.

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- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

* 11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	>11,405-<91,241 mg/kg (rat)
Inhalative	LC50/4 h	78 mg/l (rat)

14807-96-6 talc

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

100-42-5 styrene

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat) (OECD-Prüfrichtlinie 402)
Inhalative	LC50/4h	9.5 mg/m3 (mouse)
		11,800 mg/m3 (rat)
	LC50/4 h	11.8 mg/l (rat)
	NOAEC	4.34 mg/l (rat)

38668-48-3 1,1'-(p-tolylimino)dipropen-2-ol

Oral	LD50	>25-<200 mg/kg (rat) (OECD 423)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)

108-88-3 toluene

Oral	LD50	5,580 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)
		25.7-30 mg/l (rat)
	LC50/48h	3.78 mg/l (daphnia magna)

108-31-6 maleic anhydride

Oral	LD50	1,090-2,620 mg/kg (rabbit) (OECD 401)
		400-480 mg/kg (rat)
Dermal	LD50	2,620 mg/kg (rabbit)
Inhalative	LC50/1h	>4.35 mg/l (rat)
	LC50/48h	138 mg/l (lem)

· 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 internally approved calculation methods for preparations:

Harmful
Irritant

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· Carcinogenic categories· IARC (International Agency for Research on Cancer)

14807-96-6	talc	2A
100-42-5	styrene	2A
13463-67-7	titanium dioxide	2B
108-88-3	toluene	3
1309-37-1	diiron trioxide	3

· NTP (National Toxicology Program)

100-42-5	styrene	R
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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

* **12 Ecological information**· Toxicity· Aquatic toxicity:**14807-96-6 talc**

LC50/96h	100,000 mg/l (Brachydanio rerio)
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100-42-5 styrene

EC50/96h	6.3 mg/l (Pseudokirchneriella subcapitata)
EC50	500 mg/l (BES) (ISO Vorschrift 8192-1986 E)
	5.5 mg/l (Photobac. phosphoreum)
IC50/72h	4.9 mg/l (algae)
	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 (algae)
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 (algae)
	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)
	3.24-4.99 mg/l (pimephales promelas)
	6.75-14.5 mg/l (Pimephales promelas)
	58.75-95.32 mg/l (poecilia reticulata)
LC50/72h	4.9 mg/l (algae)

38668-48-3 1,1'-(p-tolylimino)dipropen-2-ol

EC50/48h	28.8 mg/l (daphnia magna) (OECD 202)
EC20/0.5h	>1,995 mg/l (BES) (OECD 209)
NOEC/21d	1.3 mg/l (piscis)

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EC50/72h	245 mg/l (Desmodesmus subspicatus) (OECD 201)
LC50/96h	17 mg/l (Brachydanio rerio)

108-88-3 toluene

EC50/24h	84 mg/l (BES)
	245 mg/l (CHV)
	8 mg/l (daphnia magna)
	10 mg/l (Pseudokirchneriella subcapitata)
EC50/96h	>433 mg/l (Pseudokirchneriella subcapitata)
IC50/72h	12 mg/l (Pseudokirchneriella subcapitata) (lit.)
	12 mg/l (Selenastrum capricornutum) (lit.)
EC50/48h	5.46-11.5 mg/l (daphnia magna) (lit.)
NOEC	0.74 mg/kg (daphnia magna)
EC50/48h	3.78 mg/l (daphnia magna)
EC50/72h	10 mg/l (algae)
	12.5 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	5.5 mg/l (piscis)
	11-15 mg/l (lem)
	5.8-17 mg/l (Oncorhynchus mykiss) (lit.)
	54 mg/l (Oryzias latipes)
	12.6-19.05 mg/l (pimephales promelas)
	7-28.2 mg/l (poecilia reticulata)

108-31-6 maleic anhydride

EC50/24h	316-330 mg/l (daphnia magna)
EC50	77 mg/l (daphnia magna)
EC10/18h	44.6 mg/l (pseudomonas putida)
EC50/48h	42.81 mg/l (daphnia magna) (OECD 202)
ErC50/72h	74.35 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOELR/72h	150 mg/l (Pseudokirchneriella subcapitata)
NOEC/21d	10 mg/l (daphnia magna)
EC50/72h	29 mg/l (Desmodesmus subspicatus)
	74.32 mg/l (Pseudokirchneriella subcapitata)
	>150 mg/l (Selenastrum capricornutum)
LC50/96h	75 mg/l (Iepomis macrochirus)
	75 mg/l (Oncorhynchus mykiss)

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· Bioaccumulative potential No further relevant information available.

· Mobility in soil 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****UN-Number**

DOT, ADR, IMDG, IATA

UN3269

UN proper shipping name

DOT

Polyester resin kit

ADR

3269 POLYESTER RESIN KIT

IMDG, IATA

POLYESTER RESIN KIT

Transport hazard class(es)

DOT



Class

3 Flammable liquids

Label

3

ADR



Class

3 (F3) Flammable liquids

Label

3

IMDG, IATA



Class

3 Flammable liquids

Label

3

Packing group

DOT, ADR, IMDG, IATA

III

Environmental hazards:

Marine pollutant:

No

Special precautions for user

Warning: Flammable liquids

Hazard identification number (Kemler code): -

EMS Number:

F-E,S-D

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· <u>Stowage Category</u>	A
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· <u>DOT</u>	
· <u>Quantity limitations</u>	On passenger aircraft/rail: 5 kg On cargo aircraft only: 10 kg
· <u>ADR</u>	
· <u>Excepted quantities (EQ)</u>	Code: E0 Not permitted as Excepted Quantity
· <u>Remarks:</u>	Without hardener component: no dangerous goods < 450 l
· <u>IMDG</u>	
· <u>Limited quantities (LQ)</u>	5L
· <u>Excepted quantities (EQ)</u>	Code: See SP340
· <u>Remarks:</u>	Without hardener component: no dangerous goods < 450 l
· <u>IATA</u>	
· <u>Remarks:</u>	Without hardener component: 3/III UN 1866 Resin Solution
· UN "Model Regulation":	UN 3269 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

108-88-3 toluene

· TSCA (Toxic Substances Control Act):

471-34-1 calcium carbonate

ACTIVE

14807-96-6 talc

ACTIVE

100-42-5 styrene

ACTIVE

13463-67-7 titanium dioxide

ACTIVE

8001-79-4 Castor oil

ACTIVE

38668-48-3 1,1'-(p-tolylimino)dipropen-2-ol

ACTIVE

108-88-3 toluene

ACTIVE

68611-44-9 Kieselsäure hydrophobiert hochdisperse

ACTIVE

· Hazardous Air Pollutants

100-42-5 styrene

108-88-3 toluene

67-56-1 methanol

108-31-6 maleic anhydride

85-44-9 phthalic anhydride

· Proposition 65· Chemicals known to cause cancer:

100-42-5 styrene

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· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

38668-48-3 1,1'-(p-tolylimino)dipropen-2-ol

· Chemicals known to cause developmental toxicity:

108-88-3 toluene

· Cancerogenity categories

· EPA (Environmental Protection Agency)

108-88-3 toluene

II

· TLV (Threshold Limit Value)

14807-96-6 talc

A4

100-42-5 styrene

A4

13463-67-7 titanium dioxide

A4

108-88-3 toluene

A4

1309-37-1 diiron trioxide

A4

108-31-6 maleic anhydride

A4

85-44-9 phthalic anhydride

A4

· MAK (German Maximum Workplace Concentration)

14807-96-6 talc

3B

100-42-5 styrene

5

13463-67-7 titanium dioxide

3A

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

13463-67-7 titanium dioxide

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS02 GHS07 GHS08

· Signal word

Danger

· Hazard-determining components of labeling:

styrene
maleic anhydride
talc
toluene

· Hazard statements

H226 Flammable liquid and vapor.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H350 May cause cancer.
H361 Suspected of damaging fertility or the unborn child.
H372 Causes damage to the hearing organs through prolonged or repeated exposure.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260 Do not breathe vapours.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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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.

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.

· **National regulations:**· **Water hazard class:**

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

· **VOC USA**

262.0 g/l / 2.19 lb/gal

· **VOC EU**

262.0 g/l

· **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 SDS:**

Laboratory

· **Contact:**

Elke Hake

Fon ++49 (0)911 64296-59

@mail E.Hake@akemi.de

· **Date of preparation / last revision**

05/16/2025 / -

· **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 relatif au transport international 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

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)

HMS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flammable Liquids 2: Flammable liquids – Category 2

Flammable Liquids 3: Flammable liquids – Category 3

Acute Toxicity - Oral 2: Acute toxicity – Category 2

Acute Toxicity - Inhalation 4: Acute toxicity – Category 4

Skin Corrosion 1B: Skin corrosion/irritation – Category 1B

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - Respiratory 1: Respiratory sensitisation – Category 1

Sensitization - Skin 1: Skin sensitisation – Category 1

Sensitization - Skin 1A: Skin sensitisation – Category 1A

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Carcinogenicity 1B: Carcinogenicity – Category 1B	
Toxic to Reproduction 2: Reproductive toxicity – Category 2	
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3	
Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1	
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2	
Aspiration Hazard 1: Aspiration hazard – Category 1	
US	