

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.11.2019

Version number 5

Revision: 05.11.2019

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

1.1 Product identifier

Trade name: **Marble Filler Super**

Article number: 10714, 10732

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

Acrylic 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.
+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. 2 H225 Highly flammable liquid and vapour.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory 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

Signal word

Danger

Hazard-determining components of labelling:

methyl methacrylate
2,2'-ethylenedioxydiethylmethacrylate
ethylene mercaptoacetate
n-butyl acrylate
tris(nonylphenyl) phosphite

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- Hazard statements
 - H225 Highly flammable liquid and vapour.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H335 May cause respiratory irritation.
- 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.
 - P261 Avoid breathing vapours.
 - P271 Use only outdoors or in a well-ventilated area.
 - P280 Wear protective gloves / eye protection.
 - P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 - P312 Call a POISON CENTER/doctor if you feel unwell.
 - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 - 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**
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients**3.2 Chemical characterisation: Mixtures**

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

Dangerous components:

CAS: 80-62-6 EINECS: 201-297-1 Index number: 607-035-00-6 Reg.nr.: 01-2119452498-28	methyl methacrylate ⚠ Flam. Liq. 2, H225 ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	50-100%
CAS: 109-16-0 EINECS: 203-652-6 Reg.nr.: 01-2119969287-21	2,2'-ethylenedioxydiethyldimethacrylate ⚠ Skin Sens. 1, H317	<10%
CAS: 38668-48-3 EINECS: 254-075-1 Reg.nr.: 01-2119980937-17	1,1'-(p-tolylimino)dipropen-2-ol ⚠ Acute Tox. 2, H300 ⚠ Eye Irrit. 2, H319 Aquatic Chronic 3, H412	<1%
CAS: 123-81-9 EINECS: 204-653-4	ethylene mercaptoacetate ⚠ Acute Tox. 2, H310 ⚠ Aquatic Chronic 2, H411 ⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1A, H317	<1%
CAS: 141-32-2 EINECS: 205-480-7 Index number: 607-062-00-3 Reg.nr.: 01-2119453155-43	n-butyl acrylate ⚠ Flam. Liq. 3, H226 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Aquatic Chronic 3, H412	<1%
CAS: 26523-78-4 EINECS: 247-759-6 Index number: 015-202-00-4	tris(nonylphenyl) phosphite ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410 ⚠ Skin Sens. 1, H317	<1%

SVHC

26523-78-4 tris(nonylphenyl) phosphite

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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.
- After inhalation: Supply fresh air and to be sure call for a doctor.
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. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.

· 4.2 Most important symptoms and effects, both acute and delayed

Breathing difficulty
Coughing
Nausea
Allergic reactions

- Information for doctor: Methylmethacrylate (MMA): Inhalation, swallowing or dermal incorporation may cause health damages. Irritates respiratory tract, digestive system, eyes and skin: e.g., cough, breathlessness, eye burning and lacrimation. Temporary impairment like headache, nausea, apporexia may occur. May cause health damages like gastritis, blood count changes, cerebral disturbance, blood pressure reduction. At higher concentration levels respiratory arrest und circulatory arrest may occur. May provoke allergic skin reactions. Sensitized users can react towards very low concentrations of MMA, and should avoid any further contact with this chemical.

· Hazards

Danger of impaired breathing.

· 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

- 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 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)
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.

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· 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.
Prevent seepage into sewage system, workpits and cellars.
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).

· **6.4 Reference to other sections**

Ensure adequate ventilation.
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 away from heat and direct sunlight.
Keep receptacles tightly sealed.
Store in cool, dry place in tightly closed receptacles.
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 fire - and explosion protection:**

Fumes can combine with air to form an explosive mixture.
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:**

Prevent any seepage into the ground.
Store only in the original receptacle.
Store in a cool location.

· **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.
Store in cool, dry conditions in well sealed receptacles.

· **Storage class:**

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· **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:

80-62-6 methyl methacrylate

WEL Short-term value: 416 mg/m³, 100 ppm
Long-term value: 208 mg/m³, 50 ppm

141-32-2 n-butyl acrylate

WEL Short-term value: 26 mg/m³, 5 ppm
Long-term value: 5 mg/m³, 1 ppm

· DNELs

80-62-6 methyl methacrylate

Oral	DNEL (Kurzzeit-akut)	0.25 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	1.5 mg/kg bw/day (ARB)
		1.5 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	1.5-13.67 mg/kg bw/day (ARB)
		1.5-8.2 mg/kg bw/day (BEV)
	DNEL (Kurzzeit-akut)	29.6-416 mg/m ³ Air (ARB)
		6.3-104 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	208 mg/m ³ Air (ARB)
		74.3-104 mg/m ³ Air (BEV)

109-16-0 2,2'-ethylenedioxydiethyldimethacrylate

Oral	DNEL (Langzeit-wiederholt)	8.33 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	13.9 mg/kg bw/day (ARB)
		8.33 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	48.5 mg/m ³ Air (ARB)
		14.5 mg/m ³ Air (BEV)

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

Oral	DNEL (Langzeit-wiederholt)	0.3 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	0.7 mg/kg bw/day (ARB)
		0.3 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	2.47 mg/m ³ Air (ARB)
		0.4 mg/m ³ Air (BEV)

· PNECs

80-62-6 methyl methacrylate

PNEC (wässrig)	10 mg/l (KA)
	0.94 mg/l (MW)
	0.94 mg/l (SW)
	0.15-0.94 mg/l (WAS)
	1.47 mg/kg Trockengew (BO)
PNEC (fest)	0.73-45.38 mg/kg Trockengew (MWS)
	5.74 mg/kg Trockengew (SWS)

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109-16-0 2,2'-ethylenedioxydiethyldimethacrylate

PNEC (wässrig)	1.7 mg/l (KA) 0.002 mg/l (MW) 0.016 mg/l (SW)
PNEC (fest)	0.027 mg/kg Trockengew (BO) 0.018 mg/kg Trockengew (MWS) 0.185 mg/kg Trockengew (SWS)

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

PNEC (wässrig)	199.5 mg/l (KA) 0.0017 mg/l (MW) 0.017 mg/l (SW) 0.17 mg/l (WAS)
PNEC (fest)	0.005 mg/kg Trockengew (BO) 0.00782 mg/kg Trockengew (MWS) 0.0782 mg/kg Trockengew (SWS)

· 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 skin.
Avoid contact with the eyes and skin.

· Respiratory protection:

Suitable respiratory protective device recommended.
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.
Skin protection agent recommendation for preventive skin shelter without use of protective gloves:

· Protection of hands:

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:
Kresto Classic (<http://debstoko.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 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,

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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 material

Value for the permeation: Level ≤ 2 , 60 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)

Fluorocarbon rubber (Viton)

Vitoject (KCL, Art_No. 890)

- Not suitable are gloves made of the following materials:

Nitrile rubber, NBR

Leather gloves

Strong material gloves

- Eye protection:



Tightly sealed goggles

- Body protection:

Protective work clothing

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties**

- General Information

- Appearance:

Form:

Fluid

Colour:

Colourless

- Odour:

Characteristic

- pH-value:

Not applicable

- Change in condition

Melting point/freezing point:

Undetermined.

Initial boiling point and boiling range: 101 °C

- Flash point:

10 °C

- Ignition temperature:

430 °C

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· <u>Auto-ignition temperature:</u>	Product is not selfigniting.
· <u>Explosive properties:</u>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <u>Explosion limits:</u>	
Lower:	2.1 Vol %
Upper:	12.5 Vol %
· <u>Vapour pressure at 20 °C:</u>	47 hPa
· <u>Density at 20 °C:</u>	1.02 g/cm ³
· <u>Solubility in / Miscibility with water at 20 °C:</u>	1.6 g/l
· <u>Viscosity:</u>	
Dynamic:	Not determined.
Kinematic at 20 °C:	40 s (DIN 53211/4)
· <u>Solvent content:</u>	
Organic solvents:	65.1 %
Solids content:	34.0 %
· 9.2 Other information	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 oxidising agents.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** 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	>2,725-<21,801 mg/kg (rat)
Dermal	LD50	89,928 mg/kg

80-62-6 methyl methacrylate

Oral	LD50	7,872 mg/kg (rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4h	4,632 mg/m ³ (rat)
	LC50/4 h	29.8 mg/l (rat)

109-16-0 2,2'-ethylenedioxydiethyldimethacrylate

Oral	LD50	>2,000 mg/kg (rat) (Lit.)
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Dermal	LD50	>2,000 mg/kg (mouse)
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)
123-81-9 ethylene mercaptoacetate		
Oral	LD50	303 mg/kg (rat)
Dermal	LD50	200 mg/kg (rabbit)
Inhalative	LC50/4 h	1.125 mg/l (rat)
	LC50/48h	4.85 mg/l (Leuciscus idus)
141-32-2 n-butyl acrylate		
Oral	LD50	900 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rbt)
Inhalative	LC50/4 h	10.3 mg/l (rat)
26523-78-4 tris(nonylphenyl) phosphite		
Oral	LD50	>16,200 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

- Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure May cause respiratory irritation.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information**• 12.1 Toxicity**

- Aquatic toxicity:

80-62-6 methyl methacrylate

EC50/96h	170 mg/l (Pseudokirchneriella subcapitata)
EC50/48h	69 mg/l (daphnia magna) (OECD 202)
EC0	100 mg/l (pseudomonas putida)
NOEC	9.4 mg/kg (Danio rerio.) (OECD 210)
NOEC	>100 mg/l (Selenastrum capricornutum)
NOEC/21d	37 mg/l (daphnia magna) (OECD 202)
EC50/72h	>110 mg/l (Selenastrum capricornutum)
LC50/96h	153.9-341.8 mg/l (lem)
	>79 mg/l (Oncorhynchus mykiss) (OECD 203)
	125-275 mg/l (pimephales promelas)
	326.4-426.9 mg/l (poecilia reticulata)

109-16-0 2,2'-ethylenedioxydiethylmethacrylate

EC50	51.9 mg/l (daphnia magna)
NOEC	18.6 mg/l (Pseudokirchneriella subcapitata)
NOEC/21d	32 mg/l (daphnia magna)

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EC50/72h	>100 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	16.4 mg/l (Brachydanio rerio)
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)
EC50/72h	245 mg/l (Desmodesmus subspicatus) (OECD 201)
LC50/96h	17 mg/l (Brachydanio rerio)
141-32-2 n-butyl acrylate	
EC50/96h	2.65 mg/l (selenastrum capricornutum)
EC50/48h	8.2 mg/l (daphnia magna)
LC50/96h	>5.2 mg/l (Oncorhynchus mykiss)
26523-78-4 tris(nonylphenyl) phosphite	
NOEC	100 mg/l (green alge)
NOELR/21d	>0.1 mg/l (daphnia magna)
EC50/48h	0.3 mg/l (daphnia magna)
LC50/96h	>100 mg/l (Oncorhynchus mykiss)

• **12.2 Persistence and degradability**

No further relevant information available.

• **12.3 Bioaccumulative potential**

No further relevant information available.

• **12.4 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 1 (German Regulation) (Self-assessment): slightly 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 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 UN-Number**

• ADR, IMDG, IATA

UN1866

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14.2 UN proper shipping name

· ADR 1866 RESIN SOLUTION
 · IMDG, IATA RESIN SOLUTION

14.3 Transport hazard class(es)· ADR

· Class 3 (F1) Flammable liquids.
 · Label 3

· IMDG, IATA

· Class 3 Flammable liquids.
 · Label 3

14.4 Packing group

· ADR, IMDG, IATA III

14.5 Environmental hazards:

· Marine pollutant: No

14.6 Special precautions for user

· Danger code (Kemler): Warning: Flammable liquids.
 · EMS Number: 33
 · Stowage Category F-E, S-E
 A

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

· Transport/Additional information:

· ADR
 · 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
 · Transport category 3
 · Tunnel restriction code D/E

· 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

· UN "Model Regulation": UN 1866 RESIN SOLUTION, 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.

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- 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 1 (Self-assessment): slightly hazardous for water.
- Substances of very high concern (SVHC) according to REACH, Article 57
- 26523-78-4 tris(nonylphenyl) phosphite
- VOC EU 911.2 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.

- Relevant phrases
 - H225 Highly flammable liquid and vapour.
 - H226 Flammable liquid and vapour.
 - H300 Fatal if swallowed.
 - H302 Harmful if swallowed.
 - H310 Fatal in contact with skin.
 - H312 Harmful in contact with skin.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H319 Causes serious eye irritation.
 - H332 Harmful if inhaled.
 - H335 May cause respiratory irritation.
 - H400 Very toxic to aquatic life.
 - H410 Very toxic to aquatic life with long lasting effects.
 - H411 Toxic to aquatic life with long lasting effects.
 - H412 Harmful to aquatic life with long lasting effects.
- Recommended restriction of use refer to Technical Data Sheet (TDS)
- Department issuing SDS: 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)
 - ICAO: International Civil Aviation Organisation
 - 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)

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LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 2: Acute toxicity – Category 2
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
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
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

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