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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.01.2023 Version number 2 (replaces version 1) Revision: 24.01.2023

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

· 1.1 Product identifier

· Trade name: Stone and Marble Adhesive - MS 76 flowing

Special Cast Resin

· Article number: 10925, 10926

· UFI: RW73-V0SH-600T-2S5X

1.2 Relevant identified uses of the substance or mixture and

uses advised againstNo further relevant information available.

· Application of the substance / the

mixture Reaction resin

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH

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

· Further information obtainable

<u>from:</u> Laboratory

1.4 Emergency telephone

number: Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH

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

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

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

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

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

Flam. Liq. 3 H226 Flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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

Repr. 2 H361d Suspected of damaging the unborn child.

STOT SE 3 H335 May cause respiratory irritation.

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

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 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

· <u>Signal word</u> Danger

· Hazard-determining components of

labelling: styrene

maleic anhydride

cobalt(II) 2-ethylhexanoate

· <u>Hazard statements</u> H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H361d Suspected of damaging the unborn child.

(Contd. on page 2)



Page 2/16

Safety data sheet

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. 2.2 Other hazarda				regional/national/international regulations.		
	2.3 Other hazards					
· Results of PBT and vPvB assessment						

 $\begin{array}{ccc} \cdot & \overline{\text{PBT:}} & \text{Not applicable.} \\ \cdot & \overline{\text{VPvB:}} & \text{Not applicable.} \end{array}$

SECTION 3: Composition/information on ingredients

3.2 Mixtures

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

· Dangerous components:		
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	25-50%
CAS: 7779-90-0 EINECS: 231-944-3 Index number: 030-011-00-6 Reg.nr.: 01-2119485044-40-0000	trizinc bis(orthophosphate) Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1-5%
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119489379-17-xxxx	titanium dioxide Carc. 2, H351	<1%

EU



Page 3/16

Safety data sheet

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Trade name: Stone and Marble Adhesive - MS 76 flowing

Special Cast Resin

		(Contd. of page 2)
CAS: 38668-48-3 EINECS: 254-075-1 Reg.nr.: 01-2119980937-17	1,1'-(p-tolylimino)dipropan-2-ol Acute Tox. 2, H300 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	<1%
CAS: 136-52-7 EINECS: 205-250-6 Reg.nr.: 01-2119524678-29-xxxx	cobalt(II) 2-ethylhexanoate Repr. 1A, H360Df Aquatic Acute 1, H400 Eye Irrit. 2, H319; Skin Sens. 1A, H317 Aquatic Chronic 3, H412	<1%
CAS: 130-15-4 EINECS: 204-977-6 Reg.nr.: 01-2120760462-57	1,4-naphthoquinone Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 1, H330 Skin Corr. 1C, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1) Skin Sens. 1, H317; STOT SE 3, H335	<1%
CAS: 108-31-6 EINECS: 203-571-6 Index number: 607-096-00-9 Reg.nr.: 01-2119472428-31	maleic anhydride Resp. Sens. 1, H334; STOT RE 1, H372 Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Sens. 1A, H317 EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	<1%
· Additional information:	For the wording of the listed hazard phrases refer to section 16.	<u> </u>

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.

· <u>After inhalation:</u> Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for

transportation.

After skin contact: If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

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

consult a doctor.

· After swallowing: If symptoms persist consult doctor.

• 4.2 Most important symptoms and effects, both acute and

delayed Nausea Headache

Dizziness
Dizziness
Danger of impaired breathing.

· <u>Hazards</u> · **4.3 Indication of any immediate**

medical attention and special

treatment needed If swallowed, gastric irrigation with added, activated carbon.

(Contd. on page 4)



Page 4/16

Safety data sheet

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Trade name: Stone and Marble Adhesive - MS 76 flowing

Special Cast Resin

(Contd. of page 3)

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 (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.

Mount respiratory protective device.

· <u>Additional information</u> 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

<u>emergency procedures</u> 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 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.

(Contd. on page 5)



Page 5/16

Safety data sheet

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(Contd. of page 4)

· 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: Store only in the original receptacle.

Prevent any seepage into the ground.

· Information about storage in one

common storage facility:

Store away from foodstuffs.

Store away from oxidising agents.

· Further information about storage

conditions:

Store receptacle in a well ventilated area.

Keep container tightly sealed.

· Storage class:

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

· Ingredients with limit values that require monitoring at the

workplace:

The product does not contain any relevant quantities of materials with critical

values that have to be monitored at the workplace.

values that have to be monitored at the workplace.						
· <u>DNELs</u>						
100-42-5	styrene					
Oral	DNEL (Langzeit-wiederholt)	2.1 mg/kg bw/day (BEV)				
Dermal	DNEL (Langzeit-wiederholt)	406 mg/kg bw/day (ARB)				
		343 mg/kg bw/day (BEV)				
Inhalative	DNEL (Kurzzeit-akut)	289-306 mg/m³ Air (ARB)				
		174.25-182.75 mg/m³ Air (BEV)				
	DNEL (Langzeit-wiederholt)	85 mg/m³ Air (ARB)				
		10.2 mg/m³ Air (BEV)				
7779-90-0	trizinc bis(orthophosphate)				
Oral	DNEL (Langzeit-wiederholt)	0.83 mg/kg bw/day (BEV)				
Dermal	DNEL (Langzeit-wiederholt)	83 mg/kg bw/day (ARB)				
		83 mg/kg bw/day (BEV)				
Inhalative	DNEL (Langzeit-wiederholt)	5 mg/m³ Air (ARB)				
		2.5 mg/m³ Air (BEV)				
13463-67-	13463-67-7 titanium dioxide					
Oral	DNEL (Langzeit-wiederholt)	700 mg/kg bw/day (BEV)				
Inhalative	DNEL (Langzeit-wiederholt)	10 mg/m³ Air (ARB)				
38668-48-3 1,1'-(p-tolylimino)dipropan-2-ol						
Oral	DNEL (Langzeit-wiederholt)	0.25 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/m³ Air (ARB)				
		(Contd on none 6				

(Contd. on page 6)



Page 6/16

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

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		nd Marble Adhesive	- MS 76 flowing	
	Special	Cast Resin		
			0.4 mg/m³ Air (BEV)	(Contd. of pag
126 52 7 6	obolt/II\	2-ethylhexanoate	0.4 mg/m All (BEV)	
		.angzeit-wiederholt)	0.0558 ma/ka hw/day (BEV)	
	-	angzeit-wiederholt)	0.0558 mg/kg bw/day (BEV) 0.235 mg/m³ Air (ARB)	
IIIIaiauve	DIVEL (L	.angzeit-wiedernoit)	0.233 filg/fil All (ARB) 0.037 mg/m³ Air (BEV)	
120 45 4 4	l 4 nanhi	thoquinone	0.037 Hig/III- All (BEV)	
	•	angzeit-wiederholt)	0.033 mg/m³ Air (ARB)	
	,		U.USS HIG/III- All (ARB)	
108-31-6 n		<u> </u>	0.00 mg//cg by//day/ (DEV)	
	•	angzeit-wiederholt)	0.06 mg/kg bw/day (BEV)	
	•	(urzzeit-akut)	0.04 mg/kg bw/day (ARB)	
	DINEL (I	Langzeit-wiederholt)	0.2 mg/kg bw/day (ARB)	
La la al a Cara	DNEL (I	(0.1 mg/kg bw/day (BEV)	
	•	(urzzeit-akut)	0.2 mg/m³ Air (ARB)	
	DNEL (L	angzeit-wiederholt)	0.081 mg/m³ Air (ARB)	
			0.08 mg/m³ Air (BEV)	
<u>PNECs</u>				
100-42-5 s	-			
PNEC (wä		• , ,		
		014 mg/l (MW)		
		0.028 mg/l (SW)		
		04 mg/l (WAS)		
PNEC (fes	st) 0.:	0.2 mg/kg Trockengew (BO)		
		307 mg/kg Trockeng		
	0.0	614 mg/kg Trockeng	jew (SWS)	
13463-67-7	7 titaniui	m dioxide		
PNEC (wä	ssrig) 10	00 mg/l (KA)		
	1 :	mg/l (MW)		
	0.	127 mg/l (SW)		
PNEC (fes	st) 10	00 mg/kg Trockenge	w (BO)	
	10	00 mg/kg Trockenge	w (MWS)	
	1,	000 mg/kg Trockeng	jew (SWS)	
38668-48-3	3 1,1'-(p-	tolylimino)dipropa	n-2-ol	
PNEC (wä	ssrig) 19	99.5 mg/l (KA)		
	0.0	0017 mg/l (MW)		
0.00782 mg/kg Trocke 0.0782 mg/kg Trocken		017 mg/l (SW)		
		17 mg/l (WAS)		
		0.005 mg/kg Trockengew (BO)		
		0.00782 mg/kg Trockengew (MWS)		
		0782 mg/kg Trocken	gew (SWS)	
136-52-7 с	obalt(II)	2-ethylhexanoate		
DMEC / "	seria) n	37 mg/l (KA)		
PNEC (was	33119/ 0.			
PNEC (wä		00236 mg/l (MW)		
PNEC (wä	0.0	00236 mg/l (MW) 00051 mg/l (SW)		





Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.01.2023 Version number 2 (replaces version 1) Revision: 24.01.2023

Trade name: Stone and Marble Adhesive - MS 76 flowing

Special Cast Resin

9.5 mg/kg Trockengew (MWS) (Contd. of page 6)

9.5-11.2 mg/kg Trockengew (SWS)

130-15-4 1,4-naphthoquinone

PNEC (wässrig) 0.172 mg/l (KA)

0.00261 mg/l (MW) 0.0261 mg/l (SW)

PNEC (fest)

0.049 mg/kg Trockengew (BO) 0.0321 mg/kg Trockengew (MWS) 0.321 mg/kg Trockengew (SWS)

108-31-6 maleic anhydride

PNEC (wässrig) 44.6 mg/l (KA)

0.0038 mg/l (MW) 0.038 mg/l (SW) 0.4281 mg/l (WAS)

PNEC (fest)

0.037 mg/kg Trockengew (BO) 0.0296 mg/kg Trockengew (MWS) 0.296 mg/kg Trockengew (SWS)

Additional information:

The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Appropriate engineering controls No further data; see item 7.

Individual protection measures, such as personal protective equipment

· General protective and hygienic

measures:

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.

· Hand protection

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:

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 anylyses of the company KCL

GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet

(Contd. on page 8)



Page 8/16

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.01.2023 Version number 2 (replaces version 1) Revision: 24.01.2023

Trade name: Stone and Marble Adhesive - MS 76 flowing

Special Cast Resin

(Contd. of page 7)

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 material

Value for the permeation: Level \leq 1, 30 min

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

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

Butyl rubber, BR

Butoject (KCL, Art_No. 897, 898)

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

Butyl rubber, BR

Butoject (KCL, Art_No. 897, 898)

· Not suitable are gloves made of the following materials:

Natural rubber, NR Chloroprene rubber, CR Leather gloves

Strong material gloves

· Eye/face 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

· Colour: Grey

· Odour: Characteristic
· Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and boiling range 145 °C

· Lower and upper explosion limit

 · Lower:
 1.2 Vol %

 · Upper:
 8.9 Vol %

 · Flash point:
 31 °C

(Contd. on page 9)



Page 9/16

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.01.2023 Version number 2 (replaces version 1) Revision: 24.01.2023

Trade name: Stone and Marble Adhesive - MS 76 flowing

Special Cast Resin

(Contd. of page 8)

· Ignition temperature: 480 °C

· <u>pH</u> Not determined.

Not applicable

· Viscosity:

Kinematic viscosity
 Dynamic at 20 °C:
 Not determined.
 2,600 mPas

Solubility

· water: Not miscible or difficult to mix.

· Vapour pressure at 20 °C: 6 hPa

Density and/or relative density

Density at 20 °C: 1.41 g/cm³

9.2 Other information

· Appearance:

· <u>Form:</u> Fluid

· Important information on protection of health and

environment, and on safety.

· Auto-ignition temperature: Product is not selfigniting.

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

vapour mixtures are possible.

· Solvent content:

Organic solvents:Solids content:25.7 %72.1 %

· Information with regard to physical hazard classes

Explosives
Flammable gases
Aerosols
Oxidising gases
Gases under pressure

Void
Void
Void

Flammable liquids Flammable liquid and vapour.

· <u>Flammable solids</u> Void · <u>Self-reactive substances and mixtures</u> Void

Pyrophoric liquids
 Pyrophoric solids
 Self-heating substances and mixtures

Void

· Substances and mixtures, which emit flammable

gases in contact with water

 Void

 Oxidising liquids
 Void

 Oxidising solids
 Void

 Organic peroxides
 Void

 Corrosive to metals
 Void

 Desensitised explosives
 Void

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.

(Contd. on page 10)



Page 10/16

Safety data sheet

according to 1907/2006/EC, Article 31

Version number 2 (replaces version 1) Printing date 24.01.2023 Revision: 24.01.2023

Trade name: Stone and Marble Adhesive - MS 76 flowing

Special Cast Resin

(Contd. of page 9)

Reacts with peroxides and other radical forming substances.

Reacts with strong alkali. Reacts with strong acids.

Reacts with strong oxidising agents. No further relevant information available.

· 10.4 Conditions to avoid · 10.5 Incompatible materials:

No further relevant information available.

· 10.6 Hazardous decomposition

products: Danger of forming toxic pyrolysis products.

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (FC) No 1272/2008

· Acute toxi		ard classes as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.
		or classification:
ATE (Acu	te Toxicity Esti	mates)
Oral	LD50	>11,967-<95,740 mg/kg (rat)
Inhalative	LC50/4 h	46.3 mg/l
100-42-5	styrene	
Oral	LD50	>2,000 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)
7779-90-0	trizinc bis(orth	• • •
Oral	LD50	>5,000 mg/kg (rat)
Inhalative		>5.7 mg/l (rat)
	7 titanium diox	
Oral	LD50	>5,010 mg/kg (rat)
	NOAEL	24,000 mg/kg (rat)
Dermal	LD50	>10,010 mg/kg (rbt)
Inhalative		10 mg/m³ (rat)
	LC50/48h	>100 mg/l (daphnia magna)
		nino)dipropan-2-ol
Oral	LD50	>25-<200 mg/kg (rat) (OECD 423)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)
	1,4-naphthoqui	
Oral	LD50	124 mg/kg (rat)
	NOAEL-Werte	
Dermal	LD50	300 mg/kg (ATE)
	LD50	202 mg/kg (rat)
Inhalative		46 mg/m3 (rat)
	LC50/4 h	0.005 mg/l (ATE)
	maleic anhydri	
Oral	LD50	1,090-2,620 mg/kg (rabbit)
		400-480 mg/kg (rat)
		(Contd. on page 1

(Contd. on page 11)



Page 11/16

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.01.2023 Version number 2 (replaces version 1) Revision: 24.01.2023

Trade name: Stone and Marble Adhesive - MS 76 flowing

Special Cast Resin

(Contd. of page 10)

| Dermal | LD50 | 2,620 mg/kg (rabbit) | lnhalative | LC50/1h | LC50/48h | 138 mg/l (lem) |

Skin corrosion/irritation
 Serious eye damage/irritation
 Respiratory or skin sensitisation
 Causes skin irritation.
 Causes serious eye irritation.
 May cause an allergic skin reaction.

• 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 May cause respiratory irritation.

STOT-repeated exposure Causes damage to the hearing organs through prolonged or repeated exposure.

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

11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

 Aquatic toxic 	· Aquatic toxicity:					
100-42-5 sty	rene					
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 (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)					
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 (green alge)					
	7779-90-0 trizinc bis(orthophosphate)					
EC50/48h	28.2 mg/l (daphnia magna)					
ErC50/72h	<0.3 mg/l (Desmodesmus subspicatus)					

(Contd. on page 12)



Page 12/16

Safety data sheet

according to 1907/2006/EC, Article 31

Version number 2 (replaces version 1) Printing date 24.01.2023 Revision: 24.01.2023

	one and Marble Adhesive - MS 76 flowing pecial Cast Resin			
		(Contd. of page 11)		
EC50/48h	<1.7 mg/l (daphnia magna)			
EC50/72h	0.28 mg/l (Selenastrum capricornutum)			
LC50/96h	<5.1 mg/l (Oncorhynchus mykiss)			
	titanium dioxide			
EC50	>1,000 mg/l (bacteria)			
EC50/48h	>100 mg/l (daphnia magna)			
EC50/72h	16 mg/l (Pseudokirchneriella subcapitata)			
LC50/96h	>100 mg/l (Oncorhynchus mykiss)			
	>1,000 mg/l (pimephales promelas)			
38668-48-3 ⁻	1,1'-(p-tolylimino)dipropan-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)			
136-52-7 co	balt(II) 2-ethylhexanoate			
IC50/72h	528 mg/l (green alge)			
130-15-4 1,4	-naphthoquinone			
NOEC	0.011 mg/kg (green alge)			
EC50/48h	0.026 mg/l (daphnia magna)			
EC50/72h	0.011 mg/l (green alge)			
	0.42 mg/l (Pseudokirchneriella subcapitata)			
LC50/96h	0.045 mg/l (Oryzias latipes)			
108-31-6 ma	lleic 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)			
ErC50/72h	74.35 mg/l (Pseudokirchneriella subcapitata) (OECD 202)			
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 (lepomis macrochirus)			
	75 mg/l (Oncorhynchus mykiss)			
12.2 Persist				

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.

12.5 Results of PBT and vPvB assessment Not applicable. · PBT: · vPvB: Not applicable.

12.6 Endocrine disrupting

The product does not contain substances with endocrine disrupting properties. properties

12.7 Other adverse effects

Harmful to fish · Remark:

(Contd. on page 13)



(Contd. of page 12)

Page 13/16

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.01.2023 Version number 2 (replaces version 1) Revision: 24.01.2023

Trade name: Stone and Marble Adhesive - MS 76 flowing

Special Cast Resin

· Additional ecological information:

· General notes:

Harmful to aquatic organisms

Do not allow product to reach ground water, water course or sewage system. Water hazard class 2 (German Regulation) (Self-assessment): hazardous for

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

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, IMDG, IATA UN3269

· 14.2 UN proper shipping name

· ADR 3269 POLYESTER RESIN KIT · IMDG, IATA POLYESTER RESIN KIT

· 14.3 Transport hazard class(es)

ADR



· Class 3 (F3) Flammable liquids.

· Label

· IMDG, IATA



3 Flammable liquids. Class

Label

14.4 Packing group

· ADR, IMDG, IATA Ш

· 14.5 Environmental hazards:

 Marine pollutant: No

· 14.6 Special precautions for user Warning: Flammable liquids.

(Contd. on page 14)



Page 14/16

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.01.2023 Version number 2 (replaces version 1) Revision: 24.01.2023

Trade name: Stone and Marble Adhesive - MS 76 flowing

Special Cast Resin

(Contd. of page 13)

· Hazard identification number (Kemler code):

· EMS Number: F-E,S-D

· Stowage Category A

14.7 Maritime transport in bulk according to IMO

<u>instruments</u> Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 5

Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

Transport category
Tunnel restriction code

Not permitted as Excepted Quantity

E

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

· IMDG

· Limited quantities (LQ) 5I

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

<u>requirements</u> 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

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

108-88-3 toluene

(Contd. on page 15)

3



AKEMI®

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.01.2023 Version number 2 (replaces version 1) Revision: 24.01.2023

Trade name: Stone and Marble Adhesive - MS 76 flowing

Special Cast Resin

(Contd. of page 14)

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

108-88-3 toluene

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.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU 362.1 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.

 Department issuing SDS: Laboratory · Date of previous version: 24.01.2023

· Version number of previous

version:

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 Organisation

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

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 (RÈACH)

PNEC: Predicted No-Effect Concentration (REACH)

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. 3: Flammable liquids - Category 3 Acute Tox. 2: Acute toxicity - Category 2 Acute Tox. 3: Acute toxicity - Category 3 Acute Tox. 1: Acute toxicity – Category 1 Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1B: Skin corrosion/irritation - Category 1B Skin Corr. 1C: Skin corrosion/irritation - Category 1C Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1

Skin Sens. 1A: Skin sensitisation - Category 1A Carc. 2: Carcinogenicity - Category 2

Repr. 1A: Reproductive toxicity – Category 1A 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 Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

(Contd. on page 16)



Page 16/16

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

Printing date 24.01.2023

Version number 2 (replaces version 1)

Trade name: Stone and Marble Adhesive - MS 76 flowing

Special Cast Resin

Revision: 24.01.2023

(Contd. of page 15)
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3