

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

Printing date 02.03.2021 Version number 35 Revision: 02.03.2021

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

· 1.1 Product identifier

**Polyester Spray Filler** · Trade name:

· Article number: 20701, 20714

· UFI: 620M-U359-E00M-25DX

1.2 Relevant identified uses of the substance or mixture and uses advised against

· Application of the substance / the

mixture

No further relevant information available.

Filler and surfacer Knife filler/ Surfacer Polyester 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

1.4 Emergency telephone

number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH

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

see manufacturer / supplier

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

Flam. Liq. 2 H225 Highly 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 RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure.

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

· Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [or shower].

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

Store in a well-ventilated place. Keep cool. Storage:

· 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

· Signal word Danger

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Trade name: Polyester Spray Filler

· Hazard-determining components of

labelling: styrene

titanium dioxide maleic anhydride

cobalt(II) 2-ethylhexanoate

· Hazard statements H225 Highly 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.

H373 May cause damage to the hearing organs through prolonged or repeated

exposure.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements P101 If medical advice is needed, have product container or label at

hand.

P102 Keep out of reach of children.

Read carefully and follow all instructions. P103

Keep away from heat, hot surfaces, sparks, open flames and P210

other ignition sources. No smoking.

P260 Do not breathe vapours.

Avoid release to the environment. P273 P280 Wear protective gloves / eye protection. P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsina.

P314 Get medical advice/attention if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Store in a well-ventilated place. Keep cool. P403+P235

P501 Dispose of contents/container in accordance with local/

regional/national/international regulations.

· 2.3 Other hazards During processing and product hardening the network generator is released as

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.

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

### · 3.2 Chemical characterisation: Mixtures

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

· 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	<10%
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5 Reg.nr.: 01-2119475103-46	ethyl acetate Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	<10%
CAS: 25013-15-4 EINECS: 246-562-2 Reg.nr.: 01-2119622074-50-0000	vinyltoluene Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	<10%

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<u>Trade name:</u> Polyester Spray Filler		
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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	1-5%
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: 136-52-7 EINECS: 205-250-6 Reg.nr.: 01-2119524678-29-xxxx	cobalt(II) 2-ethylhexanoate Repr. 1A, H360F Aquatic Acute 1, H400 Eye Irrit. 2, H319; Skin Sens. 1A, H317 Aquatic Chronic 3, H412	<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	<1%
· 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: Symptoms of poisoning may even occur after several hours; therefore medical

observation for at least 48 hours after the accident.

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air. Position and transport stably in side position.

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: Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact: Rinse opened eye for several minutes under running water. Then consult a

doctor.

· After swallowing: Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

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

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Symptoms in intoxication with (aromatic) hydrocarbons (dosis letalis about 30 g) a) In acute intoxication: headache, dizziness, euphoria, gastro-intestinal dysfunction, state of excitement, coma.

b) In chronic intoxication: myelotoxic damage, fatigue, dizziness, emaciation, cardiac palpitation after physical exercise, leucopenia, anemia, leukosis.

Therapy in hydrocarbons intoxication: In case of inhalation provision of fresh air; in case of peroral intake administration of Carbo medicinalis; only after intubation conduct of gastrolavage in application of Carbo medicinalis; in case of cramps administration of Diazepam 20 mg intravenously.

 4.2 Most important symptoms and effects, both acute and delayed

Headache

Breathing difficulty Profuse sweating

Nausea Dizziness Dizziness

· <u>Hazards</u> Danger of impaired breathing.

Skin contact with polyester and epoxy resin solutions as ingredient of the product should be avoided due to risks of skin irritations or allergic skin appearances. If occasional hand contact can not be avoided, protection gloves, proper protection ointments and protective agents generating a protective layer on the skin were applied.

• 4.3 Indication of any immediate medical attention and special treatment needed

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

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

5.1 Extinguishing media

· Suitable extinguishing agents:

-

· For safety reasons unsuitable

Water

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)

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

5.3 Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

CO2, sand, extinguishing powder. Do not use water.

Wear fully protective suit.

· 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

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.

• 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course.

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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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal

binders, sawdust).

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents Dispose of the material collected according to regulations.

· 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

<u>handling</u> Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Prevent formation of aerosols.

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

air).

Use only in well ventilated areas.

· 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.

Protect from heat.

Prevent impact and friction. Wear shoes with conductive soles.

### · 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

Requirements to be met by

storerooms and receptacles: Store in a cool location.

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

· Information about storage in one

common storage facility:

Do not store together with acids.

Do not store together with alkalis (caustic solutions).

Store away from oxidising agents. Store away from foodstuffs.

· Further information about storage

conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight. Store receptacle in a well ventilated area.

· Storage class:

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

### **SECTION 8: Exposure controls/personal protection**

· 8.1 Control parameters

· Additional information about design

of technical facilities: No further data; see item 7.

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Tilling date t	DZ.00.202 I	version number 55	1\evisio11. 02.03.2021
rade name:	Polyester Spray Filler		
			(Contd. of page 5)
· Ingredient	s with limit values that require	monitoring at the workplace:	
100-42-5	styrene		
	ort-term value: 1080 mg/m³, 25		
	g-term value: 430 mg/m³, 100	ppm	
	ethyl acetate	-	
	ort-term value: 1468 mg/m³, 40 g-term value: 734 mg/m³, 200		
	cobalt(II) 2-ethylhexanoate	ppin	
	g-term value: 0.1 mg/m³		
	Co; Carc, Sen		
108-31-6 ו	maleic anhydride		
	rt-term value: 3 mg/m³		
Lon Sen	g-term value: 1 mg/m³		
· DNELs	- <b>1</b>		
100-42-5		0.4	
Oral	DNEL (Langzeit-wiederholt)	2.1 mg/kg bw/day (BEV)	
Dermal	DNEL ( Langzeit-wiederholt)		
Inhalativa	DNEL (Kurzzoit okut)	343 mg/kg bw/day (BEV) 289-306 mg/m³ Air (ARB)	
IIIIIaiaiive	DNEL (Kurzzeit-akut)	` ,	
	DNEL (Langzeit-wiederholt)	174.25-182.75 mg/m³ Air (BEV) 85 mg/m³ Air (ARB)	
	DNEE (Langzeit-Wiederholt)	10.2 mg/m³ Air (BEV)	
1/11-78-6	ethyl acetate	10.2 mg/m All (BEV)	
Oral	DNEL (Langzeit-wiederholt)	4.5 mg/kg bw/day (BEV)	
Dermal	DNEL (Langzeit-wiederholt)		
Dominal	BIVEE ( EarngZeit Wiedernieit)	37 mg/kg bw/day (BEV)	
Inhalative	DNEL (Kurzzeit-akut)	1,468 mg/m³ Air (ARB)	
	- · · == (· · · · · · = · · · · · · · · ·	734 mg/m³ Air (BEV)	
	DNEL (Langzeit-wiederholt)	734 mg/m³ Air (ARB)	
	,	367 mg/m³ Air (BEV)	
25013-15-	4 vinyltoluene	, ,	
Oral	DNEL (Langzeit-wiederholt)	0.0833 mg/kg bw/day (BEV)	
Inhalative	DNEL (Langzeit-wiederholt)	5.83 mg/m³ Air (ARB)	
		1.04 mg/m³ Air (BEV)	
13463-67-	7 titanium dioxide		
Oral	DNEL (Langzeit-wiederholt)	700 mg/kg bw/day (BEV)	
	DNEL (Langzeit-wiederholt)	10 mg/m³ Air (ARB)	
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)	
	cobalt(II) 2-ethylhexanoate		
Oral	DNEL (Langzeit-wiederholt)	0.0558 mg/kg bw/day (BEV)	
Inhalative	DNEL (Langzeit-wiederholt)	0.235 mg/m³ Air (ARB)	
			(Contd. on page 7



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nung date o	03.2021	Version number 55	116/15/011. 02.03.20
ide name: I	Polyester Spray Filler		
			(Outline fine
		0.037 mg/m³ Air (BEV)	(Contd. of pag
108-31-6 n	aleic anhydride	3 ( )	
	<u> </u>	0.06 mg/kg bw/day (BEV)	
	` •	0.04 mg/kg bw/day (ARB)	
	ONEL(Langzeit-wiederholt)(		
	` •	0.1 mg/kg bw/day (BEV)	
Inhalative	ONEL (Kurzzeit-akut)	0.95 mg/m³ Air (ARB)	
	ONEL (Langzeit-wiederholt)	0.19-0.4 mg/m³ Air (ARB)	
	C	0.08 mg/m³ Air (BEV)	
PNECs			
100-42-5 s	yrene		
PNEC (wäs	srig) 5 mg/l (KA)		
	0.014 mg/l (MW)		
	0.028 mg/l (SW)		
	0.04 mg/l (WAS)		
PNEC (fest	) 0.2 mg/kg Trockengew	(BO)	
	0.307 mg/kg Trockenge	w (MWS)	
	0.614 mg/kg Trockenge	w (SWS)	
	thyl acetate		
PNEC (wäs	srig) 650 mg/l (KA)		
	0.024 mg/l (MW)		
	0.26 mg/l (SW)		
	1.65 mg/l (WAS)		
PNEC (fest	,		
	0.125 mg/kg Trockenge		
	1.25 mg/kg Trockengew	(SWS)	
	vinyltoluene		
PNEC (was	srig) 17 mg/l (KA)		
	0.002 mg/l (MW)		
DNEC (fact	0.0498 mg/l (SW)	(PO)	
PNEC (fest	,	•	
	0.025 mg/kg Trockenge 1.245 mg/kg Trockenge	• •	
13/63-67-7	titanium dioxide	w (3773)	
	srig) 100 mg/l (KA)		
TIVEO (Was	1 mg/l (MW)		
	0.127 mg/l (SW)		
PNEC (fest	<b>-</b> , ,	(BO)	
	100 mg/kg Trockengew		
	1,000 mg/kg Trockenge	•	
136-52-7 с	obalt(II) 2-ethylhexanoate	,	
	srig) 0.37 mg/l (KA)		
`	0.00236 mg/l (MW)		
	0.00051 mg/l (SW)		
PNEC (fest	• , ,	(BO)	
•	9.5 mg/kg Trockengew	(MWS)	
			(Contd. on pag



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9.5-11.2 mg/kg Trockengew (SWS)

108-31-6 maleic anhydride

PNEC (wässrig) 44.6 mg/l (KA)

0.00446 mg/l (MW) 0.0446 mg/l (SW) 0.4281 mg/l (WAS)

PNEC (fest)

0.0415 mg/kg Trockengew (BO) 0.0334 mg/kg Trockengew (MWS) 0.334 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:

The usual precautionary measures are to be adhered to when handling

chemicals.

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.

Use skin protection cream for skin protection.

Be sure to clean skin thoroughly after work and before breaks.

In case of brief exposure or low pollution use respiratory filter device. In case of · Respiratory protection:

intensive or longer exposure use self-contained respiratory protective device.

Short term filter device:

Filter A/P2

· 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.



### Protective gloves

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

Selection of the glove material on consideration of the penetration

times, rates of diffusion and the degradation

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

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

Kresto Classic (http://debstoko.com) STOKO VITAN (http://www.stoko.com)

Fluorocarbon rubber (Viton)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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

Value for the permeation: Level ≤ 6, 480 min

· For the permanent contact gloves made of the following materials are

suitable:

· Material of gloves

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

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

Butyl rubber, BR

Butoject (KCL, Art No. 897, 898)

Nitrile rubber, NBR

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

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Not suitable are gloves made of

the following materials: Chloroprene rubber, CR

Leather gloves

Strong material gloves

· Eye protection:

Tightly sealed goggles

· <u>Body protection:</u> Solvent resistant protective clothing

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

· 9.1 Information on	basic phy	sical and	chemical	properties
0 11.6				

· General Information

· Appearance:

Form:
Colour:
Viscous
Various colours
Odour:
Characteristic

PH-value:
Not applicable

· Change in condition

Melting point/freezing point: Undetermined. Initial boiling point and boiling range: 76-78 °C

· Flash point: -4 °C

· Ignition temperature: 460 °C

· Auto-ignition temperature: Product is not selfigniting.

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

are possible.

· Explosion limits:

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

· Vapour pressure at 20 °C: 6 hPa

· Density at 20 °C: 1.63 g/cm<sup>3</sup>

Solubility in / Miscibility with

water: Not miscible or difficult to mix.

· Viscosity:

Dynamic at 20 °C:3,500 mPasKinematic:Not determined.

· Solvent content:

Organic solvents: 26.6 %

Solids content: 51.7 %

• **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 /

<u>conditions to be avoided:</u> No decomposition if used according to specifications.

No decomposition if used and stored according to specifications.

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· 10.3 Possibility of hazardous

reactions Exothermic polymerisation.

Reacts with peroxides and other radical forming substances.

Reacts with alkali (lyes). Reacts with acids.

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

10.5 Incompatible materials: · 10.6 Hazardous decomposition

· 10.4 Conditions to avoid

products:

Carbon monoxide and carbon dioxide Organic phosphorus compounds

Possible in traces.

### **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)				
Inhalative	Inhalative LC50/4 h >56.1 mg/l			
100-42-5	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)		
141-78-6	ethyl acetate			
Oral	LD50	4,100 mg/kg (mouse)		
		5,620 mg/kg (rat)		
		4,934 mg/kg (rbt)		
	NOAEL-Werte	900 mg/kg (rat)		
Dermal	LD50	>18,000 mg/kg (rabbit)		
Inhalative	LC50	58 mg/l (rat)		
	LC50/4 h	1,600 mg/l (rat)		
	LC50/1h	200 mg/l (rat)		
	LC50/8h	5.86 mg/l (rat)		
	LC50/48h	333 mg/l (Leuciscus idus)		
	4 vinyltoluene			
Oral	LD50	3,375 mg/kg (rat)		
	NOAEL	600 mg/kg (rat)		
Dermal	LD50	4,585 mg/kg (rabbit)		
Inhalative		>16,891 mg/m3 (rat)		
	LC50/4 h	11 mg/l (ATE)		
13463-67-7 titanium dioxide				
Oral	LD50	>5,010 mg/kg (rat)		
	NOAEL	24,000 mg/kg (rat)		
Dermal	LD50	>10,010 mg/kg (rbt)		
Inhalative	NOAEL	10 mg/m³ (rat)		
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	LC50/48h	>100 mg/l (daphnia magna)	
7779-90-0	trizinc bis(or	thophosphate)	
Oral	LD50	>5,000 mg/kg (rat)	
Inhalative	LC50/4 h	>5.7 mg/l (rat)	
108-31-6 ו	108-31-6 maleic anhydride		
Oral	LD50	1,090-2,620 mg/kg (rabbit)	
		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:

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

· Additional toxicological information:

· Toxicokinetics, metabolism and

distribution After incorporation and inhalation styrene predominantly will be metabolized in

the organism to mandelic and phenylglyoxylic acid and metabolites will pass through urine excretion.

· Acute effects (acute toxicity,

irritation and corrosivity)

Artificial special nutrition in rat population, acute LD50 value, oral: 5000 mg/kg.

Inhalation, rat population, acute LC50 value (4h): 24 mg/l.

· CMR effects (carcinogenity, mutagenicity and toxicity for

reproduction)

Styrene

Tests for chromosome divergence: Mouse micro-nucleus test: mutagen

Stvrene:

Tests for DNA effects:

- exchange of chromatides: mutagen - DNA chain fragmentation: mutagen

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

Suspected of damaging the unborn child. · Reproductive toxicity

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

· STOT-repeated exposure May cause damage to the hearing organs through prolonged or repeated

exposure.

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

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

### · 12.1 Toxicity

· Aquatic toxic	· Aquatic toxicity:		
100-42-5 sty	yrene		
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	2h 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)		

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ade name: Po	olyester Spray Filler	
		(Contd. of page
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)	
141-78-6 eth	•	
EC50/96h	220 mg/l (Pimephales promelas)	
EC10/18h	2,900 mg/l (pseudomonas putida)	
EC50/48h	610 mg/l (daphnia magna) (DIN 38412)	
	5,600 mg/l (Desmodesmus subspicatus)	
IC50/48h	3,300 mg/l (Scenedesmus subspicatus)	
LC 0	29.3 mg/l (rat)	
	>100 mg/l (Desmodesmus subspicatus)	
NOEC/21d	2.4 mg/l (daphnia magna)	
EC10	2,900 mg/l (pseudomonas putida)	
EC50/48h	3,300 mg/l (Scenedesmus subspicatus)	
LC50/96h	230 mg/l (Oncorhynchus mykiss)	
	230 mg/l (Pimephales promelas)	
25013-15-4 v	<u> </u>	
EC50	2.6 mg/l (Bluegill.)	
EC50/48h	1.3 mg/l (daphnia magna)	
ErC50/72h	4.3 mg/l (Pseudokirchneriella subcapitata)	
NOEC	0.563 mg/l (piscis)	
	1.6 mg/l (green alge)	
NOEC/21d	0.32 mg/l (daphnia magna)	
	0.563 mg/l (piscis)	
EC10	0.25 mg/l (Desmodesmus subspicatus)	
EC50/72h	0.319 mg/l (Desmodesmus subspicatus)	
	5.2 mg/l (Fathead minnow)	
	2.6 mg/l (selenastrum capricornutum)	
LC50/96h	5.2-23.4 mg/l (piscis)	
	5.2 mg/l (pimephales promelas)	
	itanium 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)	(Contd. on page



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**Trade name:** Polyester Spray Filler

		• • •	
		>1,000 mg/l (pimephales promelas)	(Contd. of page 12)
	7779-90-0 tri		
EC50/48h 28.2 mg/l (daphnia magna)			
	ErC50/72h	<0.3 mg/l (Desmodesmus subspicatus)	
	EC50/48h	<1.7 mg/l (daphnia magna)	
	EC50/72h	0.28 mg/l (Selenastrum capricornutum)	
	LC50/96h	<5.1 mg/l (Oncorhynchus mykiss)	
	136-52-7 col	balt(II) 2-ethylhexanoate	
IC50/72h 528 mg/l (green alge)		528 mg/l (green alge)	
		ıleic 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 Persistence and

degradability
No further relevant information available.
No further relevant information available.

• 12.3 Bioaccumulative potential
• 12.4 Mobility in soil

No further relevant information available.

No further relevant information available.

· Ecotoxical effects:

· Remark: Harmful to fish

· Additional ecological information:

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

Harmful to aquatic organisms

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

water

· 12.5 Results of PBT and vPvB assessment

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

• 12.6 Other adverse effects No further relevant information available.

### **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

Recommendation Must not be disposed together with household garbage. Do not allow product to

reach sewage system.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They may be recycled after

thorough and proper cleaning.

· Recommended cleansing agents: Alcohol

acetone

(Contd. on page 14)



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**Trade name: Polyester Spray Filler** (Contd. of page 13) **SECTION 14: Transport information** · 14.1 UN-Number · ADR, IMDG, IATA UN3269 14.2 UN proper shipping name 3269 POLYESTER RESIN KIT · ADR · IMDG, IATA POLYESTER RESIN KIT · 14.3 Transport hazard class(es) · ADR 3 (F3) Flammable liquids. · Class · 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. · Hazard identification number (Kemler code): F-E,S-D · EMS Number: · Stowage Category Α · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: · Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity · Remarks: Without hardener component: no dangerous goods < 450 · IMDG · Limited quantities (LQ) 5L · Excepted quantities (EQ) Code: See SP340 · Remarks: Without hardener component: no dangerous goods < 30 l ·IATA Without hardener component: 3/III UN 1866 Resin · Remarks: Solution · UN "Model Regulation": UN 3269 POLYESTER RESIN KIT, 3, III

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

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

· Directive 2012/18/EU

· Named dangerous substances -

ANNEX I None of the ingredients is listed. Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the

application of lower-tier

requirements 5,000 t

Qualifying quantity (tonnes) for the

application of upper-tier

requirements 50,000 t

· National regulations:

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

Employment restrictions concerning pregnant and lactating women must be

observed.

· <u>Waterhazard class</u>: Water hazard class 2 (Self-assessment): hazardous for water.

• <u>VOC EU</u> 434.3 g/l

15.2 Chemical safety

<u>assessment:</u> 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.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.

H360F May damage fertility.

H361d Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

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:Contact:LaboratoryElke 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

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## AKEMI®

## Safety data sheet

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

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Trade name: Polyester Spray Filler

Data compared to the previous

version altered.

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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 (REACH)
PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids - Category 2 Flam. Liq. 3: Flammable liquids - Category 3 Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B

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 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Asp. Tox. 1: Aspiration hazard - Category 1

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

REACH directive 1907/2006/EC

Adaptation in accordance with REACH directive 1907/2006/EC