rinting date 03.02.2021	Version number 3	Revision: 03.02.2021
SECTION 1: Identification of th	e substance/mixture and of the company/undertaking	g
1.1 Product identifier		
· <u>Trade name:</u>	Marble Filler 1000 Universal, styrenereduced	
· <u>Article number:</u> · UFI:	10102, 10104, 10107, 10108, 10113, 10120, 10125 V3R2-R0SF-U00R-CXY2	
· 1.2 Relevant identified uses of	V3N2-N031-000N-0X12	
the substance or mixture and		
uses advised against · Application of the substance / the	No further relevant information available.	
mixture	Knife filler/ Surfacer	
1.3 Details of the supplier of the	e safety data sheet	
· Manufacturer/Supplier:	AKEMI chemisch technische Spezialfabrik GmbH	Tel. +49(0)911-642960
	Lechstrasse 28 D 90451 Nürnberg	Fax. +49(0)911-644456 e-mail info@akemi.de
. Eurther information obtainable	D 50401 Nulliberg	
 Further information obtainable from: 	Laboratory	
1.4 Emergency telephone		
<u>number:</u>	Product Safety Department AKEMI chemisch technisc Tel. +49(0)911-64296-59	che Spezialfabrik GmbH
	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	
SECTION 2: Hazards identificat	Avalonley Road London SE14 5ER	
• 2.1 Classification of the substa • <u>Classification according to Regula</u>	Avalonley Road London SE14 5ER tion <u>Ince or mixture</u> ation (EC) No 1272/2008	
 • 2.1 Classification of the substa • Classification according to Regula • Flam. Liq. 3 H226 Hamn 	Avalonley Road London SE14 5ER tion mce or mixture ation (EC) No 1272/2008 mable liquid and vapour.	
 <u>2.1 Classification of the substa</u> <u>Classification according to Regula</u> Flam. Liq. 3 H226 Flamn Skin Irrit. 2 H315 Cause 	Avalonley Road London SE14 5ER tion ation (EC) No 1272/2008 nable liquid and vapour. es skin irritation.	
2.1 Classification of the substaClassification according to RegulaFlam. Liq. 3H226Flam. Liq. 2H315CauseEye Irrit. 2H319Cause	Avalonley Road London SE14 5ER tion ation (EC) No 1272/2008 nable liquid and vapour. es skin irritation. es serious eye irritation.	
2.1 Classification of the substaClassification according to RegulaFlam. Liq. 3H226Flam. Liq. 3H315CauseSkin Irrit. 2H319CauseSkin Sens. 1H317May cause	Avalonley Road London SE14 5ER tion ation (EC) No 1272/2008 nable liquid and vapour. es skin irritation.	
2.1 Classification of the substaClassification according to RegulaFlam. Liq. 3H226Flam. Liq. 3H315CauseSkin Irrit. 2H315Eye Irrit. 2H319Skin Sens. 1H317May caRepr. 2H361d	Avalonley Road London SE14 5ER tion mce or mixture ation (EC) No 1272/2008 mable liquid and vapour. es skin irritation. es serious eye irritation. ause an allergic skin reaction.	r repeated exposure.
2.1 Classification of the substaClassification according to RegulaFlam. Liq. 3H226Flam. Liq. 3H226Flam. Liq. 3H315CauseSkin Irrit. 2H315CauseEye Irrit. 2H319CauseSkin Sens. 1H317May caRepr. 2H361dSTOT RE 2H373May ca	Avalonley Road London SE14 5ER tion <u>Ince or mixture</u> ation (EC) No 1272/2008 nable liquid and vapour. es skin irritation. es serious eye irritation. ause an allergic skin reaction. ected of damaging the unborn child.	r repeated exposure.
• 2.1 Classification of the substa• Classification according to Regula• Classification according to RegulaFlam. Liq. 3H226Flam. Liq. 3H226Flam. Skin Irrit. 2H315CauseEye Irrit. 2H319CauseSkin Sens. 1H317May caRepr. 2H361dSTOT RE 2H373Aquatic Chronic 3H412Harmf• 2.2 Label elements	Avalonley Road London SE14 5ER tion <u>Ince or mixture</u> <u>ation (EC) No 1272/2008</u> nable liquid and vapour. es skin irritation. es serious eye irritation. ause an allergic skin reaction. ected of damaging the unborn child. ause damage to the hearing organs through prolonged o ful to aquatic life with long lasting effects.	r repeated exposure.
 2.1 Classification of the substa Classification according to Regula Flam. Liq. 3 H226 Flamn Skin Irrit. 2 H315 Cause Eye Irrit. 2 H319 Cause Skin Sens. 1 H317 May ca Repr. 2 H361d Suspe STOT RE 2 H373 May ca Aquatic Chronic 3 H412 Harmf 2.2 Label elements Labelling according to Regulation 	Avalonley Road London SE14 5ER tion <u>Ince or mixture</u> <u>ation (EC) No 1272/2008</u> nable liquid and vapour. es skin irritation. es serious eye irritation. ause an allergic skin reaction. ected of damaging the unborn child. ause damage to the hearing organs through prolonged o ful to aquatic life with long lasting effects.	
 2.1 Classification of the substa Classification according to Regula Flam. Liq. 3 H226 Flamn Skin Irrit. 2 H315 Cause Eye Irrit. 2 H319 Cause Skin Sens. 1 H317 May ca Repr. 2 H361d Suspective STOT RE 2 H373 May ca Aquatic Chronic 3 H412 Harmf 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 	Avalonley Road London SE14 5ER tion <u>Ince or mixture</u> <u>ation (EC) No 1272/2008</u> nable liquid and vapour. es skin irritation. es serious eye irritation. ause an allergic skin reaction. ected of damaging the unborn child. ause damage to the hearing organs through prolonged o ful to aquatic life with long lasting effects.	· · ·
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 2.1 Classification of the substa Classification according to Regula Flam. Liq. 3 H226 Flamn Skin Irrit. 2 H315 Cause Eye Irrit. 2 H319 Cause Skin Sens. 1 H317 May ca Repr. 2 H361d Suspe STOT RE 2 H373 May ca Aquatic Chronic 3 H412 Harmf 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms Signal word Hazard-determining components 	Avalonley Road London SE14 5ER tion <u>Ince or mixture</u> ation (EC) No 1272/2008 nable liquid and vapour. as skin irritation. as serious eye irritation. ause an allergic skin reaction. acted of damaging the unborn child. ause damage to the hearing organs through prolonged o ful to aquatic life with long lasting effects. The product is classified and labelled according to the OF GHS02 GHS07 GHS08 Warning of styrene maleic anhydride	
 2.1 Classification of the substa Classification according to Regula Flam. Liq. 3 H226 Flamn Skin Irrit. 2 H315 Cause Eye Irrit. 2 H319 Cause Skin Sens. 1 H317 May ca Repr. 2 H361d Suspe STOT RE 2 H373 May ca Aquatic Chronic 3 H412 Harmf 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms Signal word Hazard-determining components 	Avalonley Road London SE14 5ER	· · ·
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 2.1 Classification of the substa Classification according to Regula Flam. Liq. 3 H226 Flamn Skin Irrit. 2 H315 Cause Eye Irrit. 2 H319 Cause Skin Sens. 1 H317 May ca Repr. 2 H361d Suspe STOT RE 2 H373 May ca Aquatic Chronic 3 H412 Harmf 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms Signal word Hazard-determining components labelling: 	Avalonley Road London SE14 5ER	

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	H361d Suspecte	d of damaging the unborn child.
	H373 May caus exposure	e damage to the hearing organs through prolonged or repeated
		o aquatic life with long lasting effects.
· Precautionary statements	P101	If medical advice is needed, have product container or label at
r recautionary statements	FIUT	hand.
	P102	Keep out of reach of children.
	P103	Read carefully and follow all instructions.
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P260	Do not breathe vapours.
	P280	Wear protective gloves / eye protection.
		3 IF ON SKIN (or hair): Take off immediately all contaminated
		clothing. Rinse skin with water [or shower].
	P305+P351+P33	8 IF IN EYES: Rinse cautiously with water for several minutes.
		Remove contact lenses, if present and easy to do. Continue
		rinsing.
	P314	Get medical advice/attention if you feel unwell.
	P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
	P403+P235	Store in a well-ventilated place. Keep cool.
	P501	Dispose of contents/container in accordance with local/ regional/national/international regulations.
· 2.3 Other hazards	During processir	ng and product hardening the network generator is released as
		ently, take care for adequate air conditioning and for fume
	exhaustion on re	
 Results of PBT and vPvB assess 	ment	·
· 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: 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	<10%
CAS: 25013-15-4 EINECS: 246-562-2 Reg.nr.: 01-2119622074-50-0000	Aquatic Chronic 3, H412 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	1-5%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119555267-33	xylene (mix) Flam. Liq. 3, H226 STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 Aquatic Chronic 3, H412	<1%
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	(Contd.	of page 2)
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43	ethanol Flam. Liq. 2, H225 Eye Irrit. 2, H319	<1%
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: 85711-46-2 EINECS: 288-306-2	Fatty acids, C14-18 and C16-18-unsatd., maleated Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	<1%
CAS: 8002-74-2 EINECS: 232-315-6	paraffin wax substance with a Community workplace exposure limit	<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:	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.
· 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
· After skin contact:	transportation. If skin irritation continues, consult a doctor.
Alter Skill Contact.	Immediately wash with water and soap and rinse thoroughly.
· After eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist,
Alter eye contact.	consult a doctor.
· After swallowing:	A person vomiting while laying on their back should be turned onto their side.
· 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
	(Contd. on page 4)



according to 1907/2006/EC, Article 31

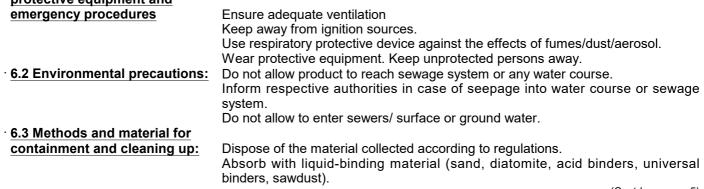
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	(Contd. of page
4.2 Most important symptoms	
and effects, both acute and	N
delayed	Nausea
	Dizziness
	Headache Breathing difficulty
	Breathing difficulty Dizziness
Hazards	Danger of impaired breathing.
	Skin contact with polyester and epoxy resin solutions as ingredient of the productions
	should be avoided due to risks of skin irritations or allergic skin appearances
	occasional hand contact can not be avoided, protection gloves, proper protect
	ointments and protective agents generating a protective layer on the skin we
	applied.
4.3 Indication of any immediate	
medical attention and special	
treatment needed	If swallowed, gastric irrigation with added, activated carbon.
Suitable extinguishing agents: For safety reasons unsuitable	CO2, powder or water spray. Fight larger fires with water spray or alco resistant foam.
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 exclude
	e.g.: Hydrogen cyanide (HCN)
5.3 Advice for firefighters	
Protective equipment:	Wear self-contained respiratory protective device.
<u>I</u>	Do not inhale explosion gases or combustion gases.
	Wear fully protective suit.
	Mount respiratory protective device.
Additional information	Dispose of fire debris and contaminated fire fighting water in accordance w
	official regulations.
	Collect contaminated fire fighting water separately. It must not enter the sewa system.
	System.
SECTION 6: Accidental release n	neasures
6.1 Personal precautions,	
protective equipment and	
emergency procedures	Ensure adequate ventilation



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DNELs	4	
100-42-5 ៖	-	
Oral		2.1 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	
		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)
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)
1330-20-7	xylene (mix)	
Oral	DNEL (Langzeit-wiederholt)	1.6 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	
	(3 ,	108 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	289 mg/m ³ Air (ARB)
	(,	174 mg/m³ Air (BEV)
	DNEL (Langzeit-wiederholt)	77 mg/m ³ Air (ARB)
		14.8 mg/m ³ Air (BEV)
64-17-5 et	hanol	
Oral	DNEL (Langzeit-wiederholt)	87 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	950 mg/kg bw/day (BEV)
Dermai	DNEL (Langzeit-wiederholt)	
		206 mg/kg bw/day (BEV)
Inhalativo	DNEL (Kurzzeit-akut)	1,900 mg/m ³ Air (ARB)
IIIIaiauve		950 mg/m ³ Air (BEV)
	DNEL (Langzait wiederhalt)	950 mg/m² Air (ARB)
	DNEL (Langzeit-wiederholt)	
20000 40		114 mg/m ³ Air (BEV)
	3 1,1'-(p-tolylimino)dipropa	
Oral	DNEL (Langzeit-wiederholt)	
Dermal	DNEL (Langzeit-wiederholt)	
		0.3 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	2.47 mg/m ³ Air (ARB)
		0.4 mg/m³ Air (BEV)
	naleic anhydride	
Oral	DNEL (Langzeit-wiederholt)	0.06 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	0.04 mg/kg bw/day (ARB)
	DNEL (Langzeit-wiederholt)	0.2 mg/kg bw/day (ARB)
		0.1 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	0.95 mg/m³ Air (ARB)
	DNEL (Langzeit-wiederholt)	0.19-0.4 mg/m³ Air (ARB)
		0.08 mg/m³ Air (BEV)
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<u>PNECs</u>		
100-42-5 styre		
PNEC (wässrig		
	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 Trockengew (MWS)	
	0.614 mg/kg Trockengew (SWS)	
25013-15-4 vir	-	
PNEC (wässrig		
	0.002 mg/l (MW)	
	0.0498 mg/l (SW)	
PNEC (fest)	0.0471 mg/kg Trockengew (BO)	
	0.025 mg/kg Trockengew (MWS)	
	1.245 mg/kg Trockengew (SWS)	
1330-20-7 xyle		
PNEC (wässrig) 6.58 mg/l (KA)	
	0.327 mg/l (MW)	
	0.327 mg/l (SW)	
	0.327 mg/l (WAS)	
PNEC (fest)	2.31 mg/kg Trockengew (BO)	
	12.46 mg/kg Trockengew (MWS)	
	12.46 mg/kg Trockengew (SWS)	
64-17-5 ethan		
PNEC (wässrig) 580 mg/l (KA)	
	0.79 mg/l (MW)	
	0.96 mg/l (SW)	
	2.75 mg/l (WAS)	
PNEC (fest)	0.63 mg/kg Trockengew (BO)	
	0.72 mg/kg Trockengew (FUT)	
	2.9 mg/kg Trockengew (MWS)	
	3.6 mg/kg Trockengew (SWS)	
•	'-(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)	
108-31-6 male	-	
PNEC (wässrig) 44.6 mg/l (KA)	
	0.00446 mg/l (MW)	
	0.0446 mg/l (SW)	
	0.4281 mg/l (WAS)	(Contd. on pag

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		(Contd. of page 7)
PNEC (fest)	0.0415 mg/kg Tr	
	0.0334 mg/kg Tr	ockengew (MWS)
	0.334 mg/kg Tro	- · · · ·
Ingredients with biological limit values:		
1330-20-7 xyle		
-	nol/mol creatinine	
Medium	n: urine	
	ng time: post shift	
	eter: methyl hippuri	
· Additional inform	mation:	The lists valid during the making were used as basis.
· <u>8.2 Exposure c</u>	controls	
Personal protect		
	ive and hygienic	
measures:		Do not eat, drink, smoke or sniff while working.
		Use skin protection cream for skin protection. Clean skin thoroughly immediately after handling the product.
		Keep away from foodstuffs, beverages and feed.
		Immediately remove all soiled and contaminated clothing
		Wash hands before breaks and at the end of work.
		Do not inhale gases / fumes / aerosols.
		Avoid contact with the eyes and skin.
 Respiratory pro 	tection:	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.
· Protection of ha	ands:	Preventive skin protection by use of skin-protecting agents is recommended.
110100101101110		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
		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 motorial has to be importantly and resistant to the one had
		The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
		(Contd. on page 9)

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	Due to missing tests no recommendat given for the product/ the preparation/ t Selection of the glove material on co times, rates of diffusion and the degrad	he chemical mixture. onsideration of the penetrat
Material of gloves	Butyl rubber, BR The selection of the suitable gloves does not or also on further marks of quality and varies from As the product is a preparation of several substant material can not be calculated in advance and has to the several substant	manufacturer to manufactur nces, the resistance of the glo
Penetration time of glove material	to the application. Value for the permeation: Level \leq 1, 30 min The exact break trough time has to be found of protective gloves and has to be observed.	out by the manufacturer of
For the permanent contact gloves		
made of the following materials are suitable:	Butyl rubber, BR	
	Butoject (KCL, Art_No. 897, 898)	
As protection from splashes gloves		
made of the following materials are suitable:	Butyl rubber, BR	
	Butoject (KCL, Art_No. 897, 898)	
Not suitable are gloves made of		
the following materials:	Fluorocarbon rubber (Viton) Natural rubber, NR	
	Nitrile rubber, NBR	
	Chloroprene rubber, CR	
	Leather gloves Rubber gloves	
Eye protection:	Tightly sealed goggles	
Body protection:	Protective work clothing	
SECTION 9: Physical and chemic	cal properties	
9.1 Information on basic physica		
9.1 Information on basic physica General Information		
9.1 Information on basic physica General Information Appearance: Form:	I and chemical properties Fluid	
9.1 Information on basic physica General Information Appearance: Form: Colour:	I and chemical properties Fluid Different according to colouring	
9.1 Information on basic physica General Information Appearance: Form: Colour: Odour:	I and chemical properties Fluid	
9.1 Information on basic physica General Information Appearance: Form: Colour:	I and chemical properties Fluid Different according to colouring Characteristic Undetermined.	
9.1 Information on basic physica General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point:	I and chemical properties Fluid Different according to colouring Characteristic Undetermined.	
9.1 Information on basic physica General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling ran	I and chemical properties Fluid Different according to colouring Characteristic Undetermined. ge: 145 °C	
9.1 Information on basic physica General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling ran Flash point:	I and chemical properties Fluid Different according to colouring Characteristic Undetermined. ge: 145 °C 32 °C	
9.1 Information on basic physica General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling ran Flash point: Ignition temperature:	I and chemical properties Fluid Different according to colouring Characteristic Undetermined. ge: 145 °C 32 °C 480 °C	of explosive air/vapour mixtur
9.1 Information on basic physica General Information Appearance: Form: Colour: Odour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling ran Flash point: Ignition temperature: Auto-ignition temperature: Explosive properties:	I and chemical properties Fluid Different according to colouring Characteristic Undetermined. ge: 145 °C 32 °C 480 °C Product is not selfigniting. Product is not explosive. However, formation of are possible.	of explosive air/vapour mixtur
9.1 Information on basic physica General Information Appearance: Form: Colour: Odour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling ran Flash point: Ignition temperature: Auto-ignition temperature: Explosive properties: Explosion limits: Lower:	I and chemical properties Fluid Different according to colouring Characteristic Undetermined. ge: 145 °C 32 °C 480 °C Product is not selfigniting. Product is not explosive. However, formation of are possible. 1.2 Vol %	of explosive air/vapour mixtur
9.1 Information on basic physica General Information Appearance: Form: Colour: Odour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling ran Flash point: Ignition temperature: Auto-ignition temperature: Explosive properties:	I and chemical properties Fluid Different according to colouring Characteristic Undetermined. ge: 145 °C 32 °C 480 °C Product is not selfigniting. Product is not explosive. However, formation of are possible.	of explosive air/vapour mixtur

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		r 1000 Universal, styrenereduced
Density at	20 °C:	(Contd. of pa 1.73 g/cm³ ([1,69 - 1,73 g/cm³])
water:	n / Miscibility	Not miscible or difficult to mix.
Viscosity: Dynamic	c at 20 °C:	18,000 mPas
Kinemat		Not determined.
Solvent co		
	solvents:	14.4 %
Solids co		83.9 %
9.2 Other	information	No further relevant information available.
SECTION	10: Stability	and reactivity
10.1 Reac	•	No further relevant information available.
10.2 Chen	nical stability	Y
	ecomposition to be avoide	
	ibility of haz	
reactions		Exothermic polymerisation.
		Reacts with peroxides and other radical forming substances.
		Reacts with strong alkali. Reacts with strong acids.
10.4 Conc	ditions to avo	
	mpatible mat	
	rdous decor	
products:	-	No dangerous decomposition products known.
SECTION	11: Toxicolo	ogical information
		exicological effects
Acute toxi		Based on available data, the classification criteria are not met. nt for classification:
Oral	te Toxicity E	>16,308-<130,463 mg/kg (rat)
Urai Inhalative		83.2 mg/l
100-42-5 ៖ Oral	LD50	>2,000 mg/kg (rat)
Orai Dermal	LD50 LD50	>2,000 mg/kg (rat) >2,000 mg/kg (rat) (OECD-Prüfrichtlinie 402)
Dermai Inhalative		
malative	LC30/411	9.5 mg/m3 (mouse) 11,800 mg/m3 (rat)
	LC50/4 h	
		11.8 mg/l (rat)
	NOAEC	4.34 mg/l (rat)
25042 45	-	a,375 mg/kg (rat)
25013-15- Oral	111160	3,373 mg/kg (lat)
25013-15- Oral	LD50	
Oral	NOAEL	600 mg/kg (rat)
Oral Dermal	NOAEL LD50	600 mg/kg (rat) 4,585 mg/kg (rabbit)
Oral	NOAEL LD50	600 mg/kg (rat)

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Safety data sheet

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(Contd. of page 10) 1330-20-7 xylene (mix) Oral LD50 4,300 mg/kg (rat) Dermal LD50 >2,000 mg/kg (rbt) 29,000 mg/m3 (rat) Inhalative LC50/4h LC50/4 h 21.7 mg/l (rat) LC50/48h 86 mg/l (Leuciscus idus) 64-17-5 ethanol Oral LD50 10,470 mg/kg (rat) (OECD 401) NOAEL-Werte >3,000 mg/kg (rat) (OECD 451) Dermal LD50 >2,000 mg/kg (rabbit) (OECD 402) Inhalative LC50/4h 20,000 mg/m3 (rat) 120 mg/l (rat) (OECD 403) LC50/4 h LC50/48h 5,012 mg/l (ceriodaphnia Dubai) 12,340 mg/l (daphnia magna) 8,150 mg/l (Leuciscus idus) 38668-48-3 1,1'-(p-tolylimino)dipropan-2-ol LD50 >25-<200 mg/kg (rat) (OECD 423) Oral Dermal LD50 >2,000 mg/kg (rabbit) (OECD 402) 108-31-6 maleic anhydride LD50 1,090-2,620 mg/kg (rabbit) Oral 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 eye irritation. · Respiratory or skin sensitisation May cause an allergic skin reaction. After incorporation and inhalation styrene predominantly will be metabolized in · Experience with humans: the organism to mandelic and phenylglyoxylic acid and matabolites will pass through urine excretion. · 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. · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Styrene Tests for chromosome divergence: Mouse micro-nucleus test: mutagen Styrene: 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. May cause damage to the hearing organs through prolonged or repeated · STOT-repeated exposure exposure. (Contd. on page 12)

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· Aspiration hazard

(Contd. of page 11) Based on available data, the classification criteria are not met.

on

SECTION 12: Ecological information				
· <u>12.1 Toxicity</u>				
· Aquatic toxic	sity:			
100-42-5 styrene				
EC50/96h	6.3 mg/l (Pseudokirchneriella subcapitata)			
EC50	500 mg/l (BES) (ISO Vorschrift 8192-1986 E)			
	5.5 mg/l (Photobac. phosphoreum)			
IC50/72h	4.9 mg/l (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) 25013-15-4 vinvltoluene

EC50	2.6 mg/l (Bluegill.)
EC50/48h	1.3 mg/l (daphnia magna)
	4.3 mg/l (Pseudokirchneriella subcapitata)
NOEC	0.563 mg/l (piscis)

NOELR/72h 1.6 mg/l (green alge) NOEC/21d 0.32 mg/l (daphnia magna)

0.563 mg/l (piscis) 0.25 mg/l (Desmodesmus subspicatus) EC10

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)

1330-20-7 xylene (mix) EC50/24h >175 mg/l (bacteria) 165 mg/l (daphnia magna)

10 mg/l (bacteria) EC50

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IC50	96 mg/l (BES)	(Contd. of page 12)
1000	1 mg/l (daphnia magna)	
LC50	2 mg/l (piscis)	
LC50/24h	32 mg/l (lepomis macrochirus)	
IC50/72h	2.2 mg/l (green alge)	
1030/1211	3.3 mg/l (Pseudokirchneriella subcapitata)	
EC50/48h	8 mg/l (daphnia magna)	
NOEC		
NOEC	0.96-1.17 mg/l (daphnia magna) >1.3 mg/l (Oncorhynchus mykiss)	
EC50/72h	0.44 mg/l (Pseudokirchneriella subcapitata) (OECD 201) 4.7 mg/l (Pseudokirchneriella subcapitata)	
EC30/7211		
	2.2 mg/l (selenastrum capricornutum) (OECD 201)	
LC50/96h	16.9 mg/l (carassius auratus)	
	1.57 mg/l (Cyprinus carpio)	
	3.77-13.5 mg/l (piscis)	
	20.9 mg/l (lepomis macrochirus)	
	7.6 mg/l (Oncorhynchus mykiss)	
	26.7 mg/l (pimephales promelas)	
64-17-5 etha		
LC50/24h	11,200 mg/l (Salmo gairdneri)	
EC50/48h	9,268-14,221 mg/l (daphnia magna)	
500	12,900 mg/l (Selenastrum capricornutum) (OECD 201)	
EC0	6,500 mg/l (pseudomonas putida)	
5040	5,000 mg/l (scenedesmus quadricauda)	
EC10	11.5 mg/l (CHV)	
EC50/72h	275 mg/l (CHV) (OECD 201)	
LC50/96h	13,000 mg/l (Oncorhynchus mykiss) (OECD 203)	
00000 40 0	15,300 mg/l (pimephales promelas)	
	I,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)	
	leic 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)	
	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		
degradabilit	y No further relevant information available.	(Contd. on page 14)



according to 1907/2006/EC, Article 31



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· <u>Stowage Category</u>	A			
· 14.7 Transport in bulk according to Annex II of Marpol				
and the IBC Code	Not applicable.			
· Transport/Additional information:				
· ADR				
· Excepted quantities (EQ)	Code: E1			
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml			
· Remarks:	Without hardener component: no dangerous goods < 450			
·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			
· <u>Remarks:</u>	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

· <u>Directive 2012/18/EU</u> · <u>Named dangerous substances -</u>	
ANNEXI	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.
· Waterhazard class:	Water hazard class 2 (Self-assessment): hazardous for water.
· VOC EU	249.8 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.
- H304 May be fatal if swallowed and enters airways.



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	(Contd. of page 15) H312 Harmful in contact with skin.
	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.
	H361d Suspected of damaging the unborn child.
	H372 Causes damage to organs through prolonged or repeated exposure.
	H373 May cause damage to organs through prolonged or repeated exposure.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: Cantact:	Laboratory
· <u>Contact:</u>	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
Abbreviations and doronymo.	fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
	IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
	ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
	ADR: Accord relatif au transport international des marchandises dangereuses par route (European
	Agreement Concerning the International Carriage of Dangerous Goods by Road)
	IMDG: International Maritime Code for Dangerous Goods 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. 2: Acute toxicity – Category 2
	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
	Skin Sens. 1B: Skin sensitisation – Category 1B
	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 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 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
	GB