according to 1907/2006/EC, Article 31

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

· 1.1 Product identifier

· Trade name: Hardener for Multi Talent 2K-UHS Filler 4:1

70505, 70506, 70507 · Article number: · UFI: P8F0-60AY-500G-NA6U

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

· Application of the substance / the

No further relevant information available.

mixture

Coating

Hardening agent/ Curing agent

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH

Laboratory

Lechstrasse 28 D 90451 Nürnberg

Tel. +49(0)911-642960 Fax. +49(0)911-644456 e-mail info@akemi.de

AKEMI®

· Further information obtainable from:

1.4 Emergency telephone

number:

+44 (171) 635 91 91

National Poison Inform. Centre Medical Toxicology Unit **Avalonley Road**

London SE14 5ER

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.

Acute Tox. 4 H332 Harmful if inhaled.

Eve Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

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

with water [or shower].

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell.

Store in a well-ventilated place. Keep container tightly closed. Storage:

Store in a well-ventilated place. Keep cool.

Store locked up.

· 2.2 Label elements

· Labelling according to Regulation

(EC) No 1272/2008

Hazard pictograms

The product is classified and labelled according to the CLP regulation.





GHS02 GHS07

· Signal word Warning

· Hazard-determining components of

labelling: Hexamethylene-1,6-diisocyanate homopolymer

n-butyl acetate

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Trade name: Hardener for Multi	Γalent 2K-UHS Fille	r 4:1
		(Contd. of page 1)
	reaction mass of	of ethylbenzole and xylole
		isocyanato-1-methyl-,homopolymer
	4-isocyanatosul	
· Hazard statements		mmable liquid and vapour.
<u> </u>		mful if inhaled.
		uses serious eye irritation.
		y cause an allergic skin reaction.
		y cause respiratory irritation. May cause drowsiness or dizziness.
· Precautionary statements	P101	If medical advice is needed, have product container or label at
1 reductionally statements	1 101	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
	1 210	other ignition sources. No smoking.
	P260	Do not breathe vapours.
	P280	Wear protective gloves / eye protection.
	P302+P352	IF ON SKIN: Wash with plenty of water.
	P304+P312	IF INHALED: Call a POISON CENTER/doctor if you feel
	1 00171 012	unwell.
	P305+P351+P3	38 IF IN EYES: Rinse cautiously with water for several minutes.
	1 000 1 001 1 0	Remove contact lenses, if present and easy to do. Continue
		rinsing.
	P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
	P403+P233	Store in a well-ventilated place. Keep container tightly closed.
	P501	Dispose of contents/container in accordance with local/
		regional/national/international regulations.
· Additional information:	EUH066 Repea	ted exposure may cause skin dryness or cracking.
		nates. May produce an allergic reaction.
· 2.3 Other hazards		,,
· Results of PBT and vPvB asses	ssment	
· PBT:	Not applicable.	
. vDvB.	Not applicable	

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Mixture: consisting of the following components.

<u>Booonpaon.</u>	winter of consisting of the following compensation.	
· Dangerous components:		
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29	n-butyl acetate Flam. Liq. 3, H226 STOT SE 3, H336	50-100%
CAS: 28182-81-2 EC number: 931-274-8 Reg.nr.: 01-2119485796-17-0000	Hexamethylene-1,6-diisocyanate homopolymer Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	12.5-25%
CAS: 26006-20-2	benzene, 2,4-diisocyanato-1-methyl-,homopolymer Eye Irrit. 2, H319; Skin Sens. 1, H317	12.5-25%
EC number: 905-588-0 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32; 01-2119486136-34	reaction mass of ethylbenzole and xylole 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	<10%
CAS: 4083-64-1 EINECS: 223-810-8 Index number: 615-012-00-7 Reg.nr.: 01-21199800050-47	4-isocyanatosulphonyltoluene Resp. Sens. 1, H334 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	<1%
	(Cor	ntd. on pa

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· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

· General information: Take affected persons out into the fresh air.

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 and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for

transportation.

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

Immediately wash with water and soap and rinse thoroughly.

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

· After swallowing: If symptoms persist consult doctor.

· Information for doctor: Acute health risks in isocyanate exposition

- dermal effect: Isocyanate contact with skin cause in dependence of the exposition duration to severe skin irritation and occasionally to contact dermatitis.

- effect on eyes: Fumes in concentration above the tolerable working place limit value, aerosols and dust promotes lacrimation and eye burning. Isocyanate eye splashs may cause damages of cornea.

- respiratory effect: In exposition of isocyanate fumes and in dependence of their concentration severe nasal irritation and pharyngitis with subsequent damage of upper and lower respiratory tract may occur. Most frequently observed symptoms are xerosis of the throat, chest pressure often accompanied by headache, respiratory malfunction and breathlessness. Long-term inhaling of high isocanate concentrations sometimes can result in a pulmonary edema.

Chronical health risks in isocyanate exposition:

Recurrent exceedings of permitted working place limit values can cause chronical respiratory diseases like bronchitis and worsening of respiratory function. In sensitive / disposed subjects sensibilization and hypersensitization may occur leading to asthmatic dysfunction (obstructive respiratory disease). 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

Breathing difficulty

Headache Dizziness

Gastric or intestinal disorders

Dizziness Nausea

Allergic reactions

Danger of impaired breathing. · Hazards

· 4.3 Indication of any immediate

medical attention and special treatment needed

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

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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) Hydrogen cyanide (HCN)

5.3 Advice for firefighters

· Protective equipment: Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

Mount respiratory protective device.

· <u>Additional information</u> Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with

official regulations.

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and

emergency procedures

Ensure adequate ventilation Keep away from ignition sources.

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

Wear protective equipment. Keep unprotected persons away.

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

Inform respective authorities in case of seepage into water course or sewage

system.

Do not allow to enter sewers/ surface or ground water.

· <u>6.3 Methods and material for</u>

containment and cleaning up: 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

<u>handling</u> Ensure good interior ventilation, especially at floor level. (Fumes are heavier than

air).

Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Use only in well ventilated areas.

Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and

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

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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· 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.

Prevent any seepage into the

· Information about storage in one

common storage facility:

· Further information about storage

conditions:

Store away from foodstuffs.

Protect from humidity and water.

Protect from frost.

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

· Additional information about design

of technical facilities:

No further data; see item 7.

2 mg/kg bw/day (BEV)

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

123-86-4 n-butyl acetate

WEL Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm

4083-64-1 4-isocyanatosulphonyltoluene

WEL Short-term value: 0.07 mg/m³

Long-term value: 0.02 mg/m³

Sen; as -NCO

· DNELs

123-86-4 ו	n-butyl acetate
Oral	DNEL (Kurzzeit-akut)

· · - · ·	(
	DNEL (Langzeit-wiederholt)	2 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	11 mg/kg bw/day (ARB)
		6 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	11 mg/kg bw/day (ARB)
		6 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	960 mg/m³ Air (ARB)
		860 mg/m³ Air (BEV)
	DNEL (Langzeit-wiederholt)	480 mg/m³ Air (ARB)
		102.34 mg/m³ Air (BEV)

28182-81-2 Hexamethylene-1,6-diisocyanate homopolymer

Inhalative	DNEL (Kurzzeit-akut)	1 mg/m³ Air (ARB)
	DNEL (Langzeit-wiederholt)	0.5 mg/m³ Air (ARB)

reaction mass of ethylbenzole and xylole

Oral	DNEL (Langzeit-wiederholt)	1.6 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	
		108 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	108 mg/kg bw/day (BEV) 289-442 mg/m³ Air (ARB)
		260 mg/m³ Air (BEV)
	DNEL (Langzeit-wiederholt)	77 mg/m³ Air (ARB)
		14.8-65.3 mg/m³ Air (BEV)

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· PNECs	· <u>PNECs</u>		
123-86-4 n-butyl acetate			
PNEC (wässrig)	35.6 mg/l (KA)		
	0.018 mg/l (MW)		
	0.18 mg/l (SW)		
	0.36 mg/l (WAS)		
PNEC (fest)	0.0903 mg/kg Trockengew (BO)		
	0.0981 mg/kg Trockengew (MWS)		
	0.981 mg/kg Trockengew (SWS)		
28182-81-2 Hex	amethylene-1,6-diisocyanate homopolymer		
PNEC (wässrig)	38.28 mg/l (KA)		
	0.0127 mg/l (MW)		
	0.127 mg/l (SW)		
	1.27 mg/l (WAS)		
PNEC (fest)	53,200 mg/kg Trockengew (BO)		
	26,670 mg/kg Trockengew (MWS)		
	266,700 mg/kg Trockengew (SWS)		
reaction mass of ethylbenzole and xylole			
PNEC (wässrig) 6.58 mg/l (KA)			
	0.327 mg/l (MW)		
	0.327 mg/l (SW)		
PNEC (fest)	2.31 mg/kg Trockengew (BO)		
	12.46 mg/kg Trockengew (MWS)		
	12.46 mg/kg Trockengew (SWS)		

Additional information:

· Protection of hands:

The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic

measures:

Apply solvent resistant skin cream before starting work.

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.

· Respiratory protection: 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.

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



Protective gloves

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 (Contd. on page 7)

on page



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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).

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 Nitrile rubber, NBR

> 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 6, 480 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:

Nitrile rubber, NBR

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

Butyl rubber, BR

Butoject (KCL, Art No. 897, 898)

· Not suitable are gloves made of

the following materials:

Natural rubber, NR Neoprene gloves Leather gloves Strong material gloves

· Eye protection:

Tightly sealed goggles

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

Appearance:

Form: Fluid Colour: Colourless Odour: Characteristic · Odour threshold: Not determined.

· pH-value: Not applicable

· Change in condition

Melting point/freezing point: Undetermined. Initial boiling point and boiling range: 124 °C

· Flash point: 27 °C

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			(Contd. of page 7)
	· Flammability (solid_das):	Not applicable	

	(Contd. of page 7)
· Flammability (solid, gas):	Not applicable.
· <u>Ignition temperature:</u>	370 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits: Lower: Upper:	3 Vol % 10.4 Vol %
· <u>Vapour pressure at 20 °C:</u>	10.7 hPa
 Density at 20 °C: Relative density Vapour density Evaporation rate 	1.02 g/cm ³ Not determined. Not determined. Not determined.
· <u>Solubility in / Miscibility with</u> <u>water:</u>	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· <u>Viscosity:</u> Dynamic: <u>Kinematic:</u>	Not determined. Not determined.
· <u>Solvent content:</u> Organic solvents:	41.7 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

· <u>10.1 Reactivity</u> 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 Reacts with strong oxidising agents.

Reacts with strong acids and alkali.

Reacts with amines. Reacts with alcohols. Reacts with water.

• 10.4 Conditions to avoid • 10.5 Incompatible materials: No further relevant information available. No further relevant information available.

· 10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

Isocyanate

Hydrogen cyanide (prussic acid)

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity Harmful if inhaled.

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· <u>LD/LC50</u> v	· LD/LC50 values relevant for classification:		
ATE (Acu	ATE (Acute Toxicity Estimates)		
Dermal	LD50	29,482 mg/kg (rabbit)	
Inhalative	LC50/4 h	1.69 mg/l (rat)	
123-86-4 r	n-butyl acetate		
Oral	LD50	10,800 mg/kg (rat) (OECD 423)	
Dermal	LD50	>17,600 mg/kg (rabbit) (OECD 402)	
Inhalative	LC50/4 h	>21 mg/l (rat) (OECD 403)	
	LC50	390 mg/m3 (rat)	
	LC50/48h	64 mg/l (Brachydanio rerio)	
28182-81-	2 Hexamethyle	ne-1,6-diisocyanate homopolymer	
Oral	LD50	>2,500 mg/kg (rat)	
	NOAEL-Werte	3 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rabbit)	
		>2,000 mg/kg (rat)	
Inhalative		0.39 mg/l (rat) (OECD TG 403)	
reaction mass of ethylbenzole and xylole			
Oral	LD50	3,523 mg/kg (rat)	
	NOAEL-Werte	250 mg/kg (rat)	
Dermal	LD50	2,000 mg/kg (rabbit)	
Inhalative	LC50/4h	29,000 mg/m3 (rat)	

Primary irritant effect:

Oral

LD50

Skin corrosion/irritation Based on available data, the classification criteria are not met.

· Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation May cause an allergic skin reaction.

6.35-6.7 mg/l (rat)

2,600 mg/kg (rat)

· Additional toxicological information:

LC50/4 h

4083-64-1 4-isocyanatosulphonyltoluene

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 STOT-single exposure
 STOT-repeated exposure
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
 May cause respiratory irritation. May cause drowsiness or dizziness.
 Based on available data, the classification criteria are not met.

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

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxi	· Aquatic toxicity:		
123-86-4 n-	123-86-4 n-butyl acetate		
EC50/24h	72.8 mg/l (daphnia magna) (DIN 38412)		
EC50/96h	320 mg/l (green alge)		
LC50/24h	205 mg/l (daphnia magna)		
IC50/72h	648 mg/l (Desmodesmus subspicatus)		
EC10/18h	959 mg/l (pseudomonas putida)		
EC50/48h	44 mg/l (daphnia magna)		
EC50/16h	959 mg/l (pseudomonas putida)		
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		(Contd. of page 9)	
NOEC	200 mg/kg (Desmodesmus subspicatus)		
NOEC/21d	23 mg/l (daphnia magna)		
EC50/72h	647.7 mg/l (Desmodesmus subspicatus) (Zellvermehrungshemmtest)		
	674 mg/l (Scenedesmus subspicatus)		
LC50/96h	62 mg/l (Danio rerio.)		
	81 mg/l (piscis)		
	100 mg/l (lepomis macrochirus)		
	62 mg/l (Leuciscus idus) (DIN 38412)		
	18 mg/l (pimephales promelas) (OECD 203)		
28182-81-2	Hexamethylene-1,6-diisocyanate homopolymer		
EC50	3,828 mg/l (BES) (OECD 209)		
LC 0/96h	>82.8 mg/l (Brachydanio rerio) (OECD 203)		
EC50/48h	127 mg/l (daphnia magna) (RL 67/548/EWG, Anhang V, C.3.)		
ErC50/72h	>1,000 mg/l (Desmodesmus subspicatus)		
EC0	>100 mg/l (daphnia magna) (OECD 202)		
EL50/48h	127 mg/l (daphnia magna)		
LL50/96h	8.9 mg/l (Brachydanio rerio)		
EC10	370 mg/l (Desmodesmus subspicatus)		
EC50/72h	>100 mg/l (Scenedesmus subspicatus) (OECD 201)		
LC50/96h	>100 mg/l (Danio rerio.) (RL 67/548/EWG, Anhang V, C.1.)		
	ss of ethylbenzole and xylole		
LC50/24h	1 mg/l (daphnia magna)		
EC50/48h	3.2-9.5 mg/l (daphnia magna)		
NOEC	16 mg/l (BES)		
	1.3 mg/l (Oncorhynchus mykiss)		
	0.44 mg/l (green alge)		
	16 mg/l (bacteria)		
EC50/72h	2.2 mg/l (selenastrum capricornutum)		
LC50/96h	2.6 mg/l (Oncorhynchus mykiss)		
	8.9-16.4 mg/l (pimephales promelas)		
	-isocyanatosulphonyltoluene		
EC50/72h	23 mg/l (green alge)		
	150 mg/l (daphnia magna)		
LC50/96h 435 mg/l (piscis)			
· 12.2 Persist			
degradabilit	degradability No further relevant information available.		

degradability
 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 1 (German Regulation) (Self-assessment): slightly hazardous

for water

· 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable. · vPvB: Not applicable.

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according to 1907/2006/EC, Article 31

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• **12.6 Other adverse effects** No further relevant information available.

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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: Empty contaminated packagings thoroughly. They may be recycled after

thorough and proper cleaning.

· Recommended cleansing agents: Alcohol

acetone

SECTION 14: Transport information

· 14.1 UN-Number	
· ADR, IMDG, IATA	UN1263

14.2 UN proper shipping name

• ADR 1263 PAINT RELATED MATERIAL PAINT RELATED MATERIAL

· 14.3 Transport hazard class(es)

· ADR



· Class 3 (F1) Flammable liquids.

· <u>Label</u>

· IMDG, IATA



· Class 3 Flammable liquids.

· Label

14.4 Packing group

· <u>ADR, IMDG, IATA</u> III

14.5 Environmental hazards:

· Marine pollutant: No

• 14.6 Special precautions for user Warning: Flammable liquids.

· Hazard identification number (Kemler code):

· EMS Number: F-E,S-E

· Stowage Category

14.7 Transport in bulk according to Annex II of Marpol

and the IBC Code Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 5L

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· Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

3

Transport categoryTunnel restriction codeD/E

· IMDG

· Limited quantities (LQ) 5L

· Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· <u>UN "Model Regulation":</u> UN 1263 PAINT RELATED MATERIAL, 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

requirements 5,000 t

· Qualifying quantity (tonnes) for the

application of upper-tier

requirements 50,000 t

· REGULATION (EC) No 1907/2006

ANNEX XVII Conditions of restriction: 3

· 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.

· National regulations:

· Information about limitation of use: Employment restrictions concerning pregnant and lactating women must be

observed.

603.5 g/l

Employment restrictions concerning juveniles must be observed.

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· VOC EU

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 H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

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

H332 Harmful if inhaled.

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

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

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AKEMI®

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according to 1907/2006/EC, Article 31

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Trade name: Hardener for Multi Talent 2K-UHS Filler 4:1

· Recommended restriction of use refer to Technical Data Sheet (TDS)

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· Department issuing SDS:

Laboratory

· Contact:

Elke Hake

Fon ++49 (0)911 64296-59

@mail E.Hake@akemi.de

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord 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. 3: Flammable liquids - Category 3 Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

Skin Sens. 1: Skin sensitisation - Category 1

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Asp. Tox. 1: Aspiration hazard - Category 1 REACH directive 1907/2006/EC

Sources

Data compared to the previous

version altered.

Adaptation in accordance with REACH directive 1907/2006/EC