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

Printing date 20.06.2018 Version number 7 Revision: 28.11.2016

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

· 1.1 Product identifier

· Trade name: AKS System Fillers, Component II

 Article number: 60xyz

 1.2 Relevant identified uses of the substance or mixture and

uses advised against

No further relevant information available.

SU3 Industrial uses: Uses of substances as such or in preparations at Sector of Use

PC9b Fillers, putties, plasters, modelling clay

industrial sites

Laboratory

Professional uses: Public domain (administration, education, SU22

entertainment, services, craftsmen)

Product category

Application of the substance / the

Knife filler/ Surfacer mixture Polyester resin

1.3 Details of the supplier of the safety data sheet

 Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH Tel. +49(0)911-642960

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

· Further information obtainable

from: · 1.4 Emergency telephone

number: Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH

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

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

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

+44 (171) 635 91 91

National Poison Inform. Centre

Medical Toxicology Unit Avalonley Road

London SE14 5ER

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

H361d Suspected of damaging the unborn child.

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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

· 2.2 Label elements

· Labelling according to Regulation

(EC) No 1272/2008

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

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Trade name: AKS System Fillers, Component II

Hazard pictograms



Danger





GHS07

· Signal word

· Hazard-determining components

of labelling:

· Hazard statements

styrene

H226 Flammable liquid and vapour.

H315 Causes skin irritation. H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

H372 Causes damage to the hearing organs through prolonged or repeated

exposure.

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

at hand.

P102 Keep out of reach of children.

P103 Read label before use.

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

other ignition sources. No smoking.

P260 Do not breathe vapours.

P280 Wear protective gloves/protective clothing/eye protection/face

protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water [or shower].

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

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

P314 Get medical advice/attention if you feel unwell. P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/

regional/national/international regulations.

· Additional information: Contains Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and 2-[[2-(2-

hydroxyethoxy)ethyl](4-methylphenyl)amino]-ethanol. May produce an allergic

· 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

· Description: Mixture: consisting of the following components.

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Trade name: AKS System Fillers, Component II

(Contd. of page 2) · Dangerous components: CAS: 100-42-5 styrene 12.5-25% EINECS: 202-851-5 Flam. Lig. 3, H226 Index number: 601-026-00-0 🕉 Repr. 2, H361d; STOT RE 1, H372; Asp. Tox. 1, H304 Reg.nr.: 01-2119457861-32 Aquatic Chronic 3, H412 CAS: 38668-48-3 1,1'-(p-tolylimino)dipropan-2-ol <1% Acute Tox. 2, H300 Eye Irrit. 2, H319 EINECS: 254-075-1 Reg.nr.: 01-2119980937-17 Aguatic Chronic 3, H412 EC number: 911-490-9 Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and 2-[[2-(2-<1% Reg.nr.: 01-2119979579-10 hydroxyethoxy)ethyl](4-methylphenyl)amino]-ethanol Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 Aquatic Chronic 3, H412 CAS: 108-88-3 toluene <1%

Skin Irrit. 2, H315; STOT SE 3, H336 Aguatic Chronic 3, H412 · Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

Index number: 601-021-00-3

Reg.nr.: 01-2119471310-51

EINECS: 203-625-9

· 4.1 Description of first aid measures

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

Flam. Liq. 2, H225

Position and transport stably in side position.

\lambda Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304

Symptoms of poisoning may even occur after several hours; therefore medical

observation for at least 48 hours after the accident.

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

Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for

transportation.

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

consult a doctor.

If symptoms persist consult doctor. · After swallowing:

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

Nausea Dizziness

Headache

With reference to section 2 the formulation contains styrene in the indicated Information for doctor:

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.

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Chronical health risks:

Effects at central and peripheral nervous system and respiratory tract are

(Contd. of page 3)

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

· Hazards 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.

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)

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.

Wear fully protective suit.

Mount respiratory protective device.

· Additional information 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

svstem.

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).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

 \cdot 6.4 Reference to other sections See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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SECTION 7: Handling and storage

· 7.1 Precautions for safe

handling Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

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

than air).

Use only in well ventilated areas.

Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and

explosion protection: Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

· Requirements to be met by

storerooms and receptacles: Store only in the original receptacle.

Prevent any seepage into the ground.

Information about storage in one

common storage facility:

Store away from oxidising agents.

Store away from foodstuffs.

· Further information about storage

conditions:

Store receptacle in a well ventilated area.

Protect from frost.

Keep container tightly sealed.

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

SECTION 8: Exposure controls/personal protection

Additional information about

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

· 8.1 Control parameters

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

100-42-5 styrene

WEL Short-term value: 1080 mg/m³, 250 ppm Long-term value: 430 mg/m³, 100 ppm

108-88-3 toluene

WEL Short-term value: 384 mg/m³, 100 ppm Long-term value: 191 mg/m³, 50 ppm

Sk

· DNELs

100-42-5 styrene

Oral DNEL (Langzeit-wiederholt) 2.1 mg/kg bw/day (BEV) Dermal

DNEL (Langzeit-wiederholt) 406 mg/kg bw/day (ARB)

343 mg/kg bw/day (BEV)

Inhalative DNEL (Kurzzeit-akut) 289-306 mg/m³ Air (ARB)

174.25-182.75 mg/m³ Air (BEV)

DNEL (Langzeit-wiederholt) 85 mg/m³ Air (ARB)

10.2 mg/m³ Air (BEV)

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•	Р	Ν	E١	US.

100-42-5 styrene

PNEC (wässrig) 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 Trockengew (MWS) 0.614 mg/kg Trockengew (SWS)

· Additional information:

The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Personal protective equipment:

- General protective and hygienic

measures:

Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection.

Clean skin thoroughly immediately after handling the product.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

Respiratory protection:

Filter AX

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.

· Protection of hands:

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

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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
 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. 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.

 \cdot 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

made of the following materials are suitable:

Fluorocarbon rubber (Viton)

Vitoject (KCL, Art_No. 890)

Butyl rubber, BR

As protection from splashes gloves made of the following materials are

suitable:

Fluorocarbon rubber (Viton)

Vitoject (KCL, Art_No. 890) Nitrile rubber, NBR

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:

the following materials:

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: Different according to colouring

Odour:Odour threshold:Specific typeNot determined.

· pH-value: Not applicable

· Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: 145 °C

· Flash point: 32 °C

· Flammability (solid, gas): Not applicable.

- Ignition temperature: 480 °C

<u>Decomposition temperature:</u> Not determined.

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Trade name: AKS System F	Fillers, Component II
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	(Contd. of page 7)		
· 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:	1.2 Vol % 8.9 Vol %		
· Vapour pressure at 20 °C:	6 hPa		
 Density at 20 °C: Relative density Vapour density Evaporation rate 	1.64 g/cm³ ([1,63-1,65 g/cm³]) Not determined. Not determined. Not determined.		
Solubility in / Miscibility with water:	Not miscible or difficult to mix.		
· Partition coefficient: n-octanol/water:	Not determined.		
· <u>Viscosity:</u> Dynamic at 20 °C: Kinematic:	8,000 mPas Not determined.		
Solvent content: Organic solvents:	18.1 %		
Solids content: • 9.2 Other information	75.4 % No further relevant information available.		

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability Thermal decomposition /

conditions to be avoided: No decomposition if used and stored according to specifications.

· 10.3 Possibility of hazardous reactions

Exothermic polymerisation. Reacts with peroxides and other radical forming substances.

> Reacts with strong alkali. Reacts with strong 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

Carbon monoxide and carbon dioxide products:

Nitrogen oxides (NOx)

Hydrogen cyanide (prussic acid)

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)

Oral LD50 >7,381-<59,049 mg/kg (rat)

Inhalative LC50/4 h 65.9 mg/l (rat)

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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	0/4h 9.5 mg/m3 (mouse)			
LC50/4 h 11.8 mg/l (rat)		11.8 mg/l (rat)			
	NOAEC	4.34 mg/l (rat)			

· Primary irritant effect:

Skin corrosion/irritation
 Serious eye damage/irritation
 Causes skin irritation.
 Causes serious eye irritation.

· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

• Experience with humans: After incorporation and inhalation styrene predominantly will be metabolized in

the organism to mandelic and phenylglyoxylic acid and matabolites will pass

through urine excretion.

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

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

• Reproductive toxicity Suspected of damaging the unborn child.

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

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

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

SECTION 12: Ecological information

· 12.1 Toxicity

· 12.1 TOXICITY					
- Aquatic toxicity:					
100-42-5 styrene					
EC50/96h	0.15-3.2 mg/l (Pseudokirchneriella subcapitata)				
EC50	500 mg/l (BES) (ISO Vorschrift 8192-1986 E)				
	5.5 mg/l (Photobac. phosphoreum)				
IC50/72h	250/72h 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	2h 0.46-4.3 mg/l (Pseudokirchneriella subcapitata)				
LC50/96h	C50/96h >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)					
. 12 2 Parsis	tanca and				

· 12.2 Persistence and

degradability No further relevant information available.

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· 12.3 Bioaccumulative potential · 12.4 Mobility in soil

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

· Additional ecological information: · General notes:

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

water

· 12.5 Results of PBT and vPvB assessment

Not applicable. · PBT: Not applicable. vPvB:

· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

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

reach sewage system.

· European waste catalogue

20 00 00 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND

INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

20 01 00 separately collected fractions (except 15 01)

20 01 27* paint, inks, adhesives and resins containing hazardous substances

Uncleaned packaging:

· Recommendation: Empty contaminated packagings thoroughly. They may be recycled after

thorough and proper cleaning.

· Recommended cleansing agents: Alcohol

SECTION 14: Transport information

٠,	14.	1	U	N-	N	um	ber	
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· ADR, ADN, IMDG Void UN1866 · IATA

· 14.2 UN proper shipping name

· ADR, ADN, IMDG Void

RESIN SOLUTION IATA

· 14.3 Transport hazard class(es)

· ADR, ADN, IMDG

Void Class

IATA



 Class 3 Flammable liquids.

Label

· 14.4 Packing group

- ADR, IMDG Void · IATA Ш

· 14.5 Environmental hazards:

· Marine pollutant: No

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Trade name: AKS System Fillers, Component II			
	(Contd. of page 10)		
· 14.6 Special precautions for user Not applicable.			
 14.7 Transport in bulk according to Ann Marpol and the IBC Code 	ex II of Not applicable.		
- Transport/Additional information:	Not dangerous according to the above specifications.		
· <u>ADR</u> · <u>Remarks:</u>	Without hardener component: no dangerous goods < 450 l		
· IMDG · Remarks:	Without hardener component: no dangerous goods < 30 l		
· UN "Model Regulation":	Void		

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, 40

· National regulations:

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

Employment restrictions concerning pregnant and lactating women must be

observed.

298.2 q/l

· Waterhazard class: Water hazard class 2 (Self-assessment): 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
 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.

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.

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

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H361d Suspected of damaging the unborn child.

H372 Causes damage to the hearing organs through prolonged or repeated

exposure.

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

exposure.

H412 Harmful to aquatic life with long lasting effects.

· Recommended restriction of use

refer to Technical Data Sheet (TDS)

· Department issuing SDS:

Laboratory

· Contact:

Dieter Zimmermann

Elke Hake

Fon ++49 (0)911 64296-59 @mail E.Hake@akemi.de

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de

fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European

Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

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 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

Skin Sens. 1: Skin sensitisation – Category 1 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 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

* Data compared to the previous version altered.

Adaptation in accordance with REACH directive 1907/2006/EC

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