AKEMI®

Tel. +49(0)911-642960

Printing date 03.04.2019 Version number 5 Revision: 03.04.2019

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

· 1.1 Product identifier

· Trade name: **Lettering Colour Spray Antique Silver** 

· Article number: 11417

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

No further relevant information available.

Application of the substance / the

Lacquer mixture

· 1.3 Details of the supplier of the safety data sheet

AKEMI chemisch technische Spezialfabrik GmbH Manufacturer/Supplier:

Laboratory

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

· Further information obtainable

from: · 1.4 Emergency telephone

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



number:

GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS07

Eye Irrit. 2 H319

Causes serious eye irritation.

STOT SE 3 H336

May cause drowsiness or dizziness.

· 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

· Hazard-determining components

of labelling:

· Signal word

acetone

Danger

n-butyl acetate

· Hazard statements H222-H229 Extremely flammable aerosol. Pressurised container: May burst if

heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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· 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.
	P211	Do not spray on an open flame or other ignition source.
	P251	Do not pierce or burn, even after use.
	P260	Do not breathe spray.
	P280	Wear protective gloves / eye protection.
	P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes.  Remove contact lenses, if present and easy to do. Continue rinsing.
	P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
<ul> <li>Additional information:</li> </ul>	EUH066 Repea	ated exposure may cause skin dryness or cracking.
Buildup of explosive mixtures possible without sufficie		
<ul> <li>2.3 Other hazards</li> </ul>		·
<ul> <li>Results of PBT and vPvB asse</li> </ul>	ssment	
· <u>PBT:</u>	Not applicable.	
· <u>vPvB:</u>	Not applicable.	

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

#### · 3.2 Chemical characterisation: Mixtures

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

<u> </u>	Thir from azaraeae adamento.	
· Dangerous components:		
CAS: 67-64-1 acetone EINECS: 200-662-2 foldex number: 606-001-00-8 Reg.nr.: 01-2119471330-49 acetone  Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	25-50%	
CAS: 115-10-6 dimethyl ether  EINECS: 204-065-8 flam. Gas 1, H220; Flam. Liq. 1, H224  Index number: 603-019-00-8  Reg.nr.: 01-2119472128-37	12.5-25%	
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	<12.5%	
CAS: 106-97-8  EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32  butane  Flam. Gas 1, H220; Flam. Liq. 1, H224 Press. Gas (Comp.), H280	<12.5%	
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	<10%	
CAS: 75-28-5 isobutane EINECS: 200-857-2	1-5%	
CAS: 9004-70-0 nitrocellulose solutions, with not more than 55% nitrocellulose  or Flam. Sol. 1, H228	an 12.6% nitrogen, by dry mass, 1-5%  (Contd. on page)	



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	(Co	ntd. of page 2)
CAS: 7429-90-5 EINECS: 231-072-3 Index number: 013-002-00-1 Reg.nr.: 01-2119529243-45	aluminium powder (stabilised)  Flam. Sol. 1, H228; Water-react. 3, H261	1-5%
EC number: 905-588-0 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32; 01-2119486136-34		1-5%
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	1-5%

#### **SECTION 4: First aid measures**

Additional information:

· After inhalation:

· 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. Supply fresh air; consult doctor in case of complaints.

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

Immediately wash with water and soap and rinse thoroughly.

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

For the wording of the listed hazard phrases refer to section 16.

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

consult a doctor.

After swallowing:

· 4.2 Most important symptoms and effects, both acute and

delayed

Headache Dizziness Dizziness

Gastric or intestinal disorders

Nausea Coughing

Profuse sweating

· Information for doctor: 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.

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. Danger of impaired breathing.

Hazards

· 4.3 Indication of any immediate medical attention and special

treatment needed

If swallowed, gastric irrigation with added, activated carbon.

If swallowed or in case of vomiting, danger of entering the lungs.

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

· 5.1 Extinguishing media

CO2, powder or water spray. Fight larger fires with water spray or alcohol Suitable extinguishing agents:

resistant foam.

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· For safety reasons unsuitable Water with full jet extinguishing agents:

5.2 Special hazards arising from

the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

Formation of toxic gases is possible during heating or in case of fire.

· 5.3 Advice for firefighters

Wear self-contained respiratory protective device. Protective equipment:

Do not inhale explosion gases or combustion gases.

#### **SECTION 6: Accidental release measures**

· 6.1 Personal precautions, protective equipment and

Keep away from ignition sources. emergency procedures

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

Mount respiratory protective device.

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

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

system.

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

· 6.3 Methods and material for

containment and cleaning up: Dispose of the material collected according to regulations.

Ensure adequate ventilation.

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

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### **SECTION 7: Handling and storage**

· 7.1 Precautions for safe

handling Keep away from heat and direct sunlight.

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

than air).

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· Information about fire - and

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

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurised container: protect from sunlight and do not expose to temperatures

exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

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

· Storage:

· Requirements to be met by

storerooms and receptacles: Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

· Information about storage in one

common storage facility:

Not required.

· Further information about storage

conditions: Keep container tightly sealed. Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· Storage class: 2 B

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7.3 Specif	ii <b>c end use(s)</b> No f	rurther relevant information available.	(Contd. of page
SECTION	8: Exposure controls/perso	nal protection	
	information about echnical facilities: No f	rurther data; see item 7.	
	ol parameters	armor data, coo nom 7.	
'	s with limit values that require	monitoring at the workplace:	
67-64-1 ac		memoring active memperature.	
	rt-term value: 3620 mg/m³, 15	00 ppm	
	g-term value: 1210 mg/m³, 50	0 ppm	
	dimethyl ether		
	rt-term value: 958 mg/m³, 500 g-term value: 766 mg/m³, 400		
106-97-8 k	J ,	ppin	
	rt-term value: 1810 mg/m³, 75	0 mag	
Long	g-term value: 1450 mg/m³, 60	0 ppm	
	c (if more than 0.1% of buta-1	.3-diene)	
	n-butyl acetate		
	rt-term value: 966 mg/m³, 200 g-term value: 724 mg/m³, 150		
64-17-5 et		ррш	
	g-term value: 1920 mg/m³, 10	00 ppm	
DNELs	g to value: 1020g/ , 10		
67-64-1 ac	rotono		
Oral	DNEL (Langzeit-wiederholt)	62 mg/kg bw/day (BEV)	
Dermal	DNEL (Langzeit-wiederholt)	5 5 , ,	
	( g	62 mg/kg bw/day (BEV)	
Inhalative	DNEL (Kurzzeit-akut)	2,420 mg/m³ Air (ARB)	
	DNEL (Langzeit-wiederholt)	1,210 mg/m³ Air (ARB)	
	,	200 mg/m³ Air (BEV)	
115-10-6 c	dimethyl ether		
Inhalative	DNEL (Langzeit-wiederholt)	1,894 mg/m³ Air (ARB)	
		471 mg/m³ Air (BEV)	
	n-butyl acetate		
Oral	DNEL (Langzeit-wiederholt)	3.4 mg/kg bw/day (BEV)	
Dermal	DNEL (Langzeit-wiederholt)		
		3.4 mg/kg bw/day (BEV)	
Inhalative	DNEL (Kurzzeit-akut)	960 mg/m³ Air (ARB)	
	DNEL (Langacit windowholt)	859.7 mg/m³ Air (BEV)	
	DNEL (Langzeit-wiederholt)	480 mg/m³ Air (ARB) 102.34 mg/m³ Air (BEV)	
reaction n	nass of ethylbenzole and xy	, ,	
Oral	DNEL (Langzeit-wiederholt)	1.6 mg/kg bw/day (BEV)	
Dermal	DNEL (Langzeit-wiederholt)	180 mg/kg bw/day (ARB)	
2 2.11101	( _ang_on modernon)	108 mg/kg bw/day (BEV)	
Inhalativa	DNEL (Kurzzeit-akut)	289-442 mg/m³ Air (ARB)	
mnalative	DIVLE (IKGIZZOIL AKAL)	200 1 12 111g/111 7 111 (7 11 12)	



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			(Contd. of pa	
		260 mg/m³ Air (BEV)	(2.2.2.2.1.2.2.1.2.2.2.2.2.2.2.2.2.2.2.2	
	DNEL (Langzeit-w	iederholt) 77 mg/m³ Air (ARB)		
		14.8-65.3 mg/m <sup>3</sup> Air (BEV)		
64-17-5 et	hanol			
Oral	DNEL (Langzeit-w	iederholt) 87 mg/kg bw/day (BEV)		
	DNEL (Kurzzeit-ak	,		
	DNEL (Langzeit-w	, , , ,		
		206 mg/kg bw/day (BEV)		
Inhalative	DNEL (Kurzzeit-ak	,		
		950 mg/m³ Air (BEV)		
	DNEL (Langzeit-w	, , ,		
	_	114 mg/m³ Air (BEV)		
<u>PNECs</u>				
67-64-1 ac				
PNEC (wä	ssrig) 100 mg/l (K/	,		
	1.06 mg/l (M	•		
	10.6 mg/l (S	•		
	21 mg/l (WA	•		
PNEC (fes	,	Trockengew (BO)		
		Trockengew (MWS)		
117 10 0		Trockengew (SWS)		
	dimethyl ether	A.)		
PNEC (wa	ssrig) 180 mg/l (K/	•		
	0.016 mg/l (			
	• `	0.155 mg/l (SW)		
PNEC (fes	,	0.045 mg/kg Trockengew (BO) 0.069 mg/kg Trockengew (MWS)		
		g Trockengew (MWS)		
122-26-4 r	n-butyl acetate	1 Hockengew (SWS)		
	ssrig) 35.6 mg/l (K	Δ		
i iveo (wa	0.018 mg/l (			
	0.18 mg/l (S	•		
	0.36 mg/l (W	•		
PNEC (fes	,	kg Trockengew (BO)		
(	,	kg Trockengew (MWS)		
	_	g Trockengew (SWS)		
reaction mass of ethylbenzole and xy PNEC (wässrig)   6.58 mg/l (KA)		- , ,		
`	0.327 mg/l (	•		
	0.327 mg/l (	•		
PNEC (fes	• ,	Trockengew (BO)		
`	,	g Trockengew (MWS)		
12.46 mg/kg Trockengew (SWS)  64-17-5 ethanol		. , ,		
		- : *		
64-17-5 et	iiuiioi			
	ssrig) 580 mg/l (K/	۹)		



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0.96 mg/l (SW)

2.75 mg/l (WAS)

0.63 mg/kg Trockengew (BO) PNEC (fest)

0.72 mg/kg Trockengew (FUT) 2.9 mg/kg Trockengew (MWS) 3.6 mg/kg Trockengew (SWS)

· Additional information:

The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Protection of hands:

- · 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.

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. Use suitable respiratory protective device in case of insufficient ventilation. Preventive skin protection by use of skin-protecting agents is recommended.

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

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.

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  $\leq$  1, 10 min

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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:

Nitrile rubber, NBR

Camatril (KCL, Art\_No. 730, 731, 732, 733)

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

suitable:

Nitrile rubber, NBR

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

· Not suitable are gloves made of

the following materials:

Natural rubber, NR Leather gloves

Strong material gloves

· Eye protection:



Tightly sealed goggles

· Body protection: Light weight protective clothing

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

· 9.1 Information on basic physical and chemical properties		
- General Information		
· <u>Appearance:</u> Form:	Aerosol	
Colour:	Silver-coloured	
· Odour:	Characteristic	
· pH-value:	Not applicable	
· Change in condition	• •	
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range:	Not applicable, as aerosol.	
· Flash point:	Not applicable, as aerosol.	
· Ignition temperature:	240 °C	
· Auto-ignition temperature:	Product is not selfigniting.	
· Explosive properties:	In use, may form flammable/explosive vapour-air mixture.	
· Explosion limits:		
Lower:	1.7 Vol %	
<u>Upper:</u>	26.2 Vol %	
· Vapour pressure at 20 °C:	8,300 hPa	
· Density at 20 °C:	0.76 g/cm³	
Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Viscosity:		
Dynamic:	Not determined.	
	Not applicable	
Kinematic:	Not determined.	
· Solvent separation test:	Not applicable	
· Solvent content:		
Organic solvents:	92.4 %	

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Solids content: 1.3 %

• 9.2 Other information No further relevant information available.

#### **SECTION 10: Stability and reactivity**

• 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

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

10.3 Possibility of hazardous

reactions

No dangerous reactions known.

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

· 10.6 Hazardous decomposition

products:

No dangerous decomposition products known.

#### **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 v	· LD/LC50 values relevant for classification:		
ATE (Acute Toxicity Estimates)			
Dermal	LD50	89,268 mg/kg (rabbit)	
Inhalative	nhalative LC50/4 h >112-115 mg/l (rat)		
C7 C4 4 costons			
67-64-1 acetone			
Oral	LD50	5,800 mg/kg (rat) (OECD 401)	
	NOEL	900 mg/kg (rat)	

		, ,
	NOEL	900 mg/kg (rat)
	NOAEL-Werte	22,500 mg/kg (rat)
Dermal	LD50	15,688 mg/kg (rat) >15,800 mg/kg (rbt)
		>15,800 mg/kg (rbt)
Inhalative	LC50/4 h	76 mg/l (rat)
	LC50/48h	2,262 mg/l (daphnia magna)

#### 115-10-6 dimethyl ether

Inhalative	LC50/4h	164,000 mg/m3 (rat)
	LC50/4 h	308 mg/l (rat)
	LC50/48h	>4,000 mg/l (daphnia magna)

#### 106-97-8 butane

#### 123-86-4 n-butyl acetate

Orai		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)

#### 75-28-5 isobutane

Inhalative LC50/4 h >50 mg/l (rat)

#### 7429-90-5 aluminium powder (stabilised)

Oral LD50 >2,000 mg/kg (rat)

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Inhalative	LC50/4h	>888 mg/m3 (rat)	
	LC50/4 h	>5 mg/l (rat)	
	NOAEC	0.01 mg/l (rat)	
reaction r	reaction mass of ethylbenzole and xylole		
Oral	LD50	3,523 mg/kg (rat)	
Dermal	LD50	2,000 mg/kg (rabbit)	
Inhalative	LC50/4h	29,000 mg/m3 (rat)	
	LC50/4 h	6.35-6.7 mg/l (rat)	
64-17-5 et	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)	
	LC50/4 h	120 mg/l (rat) (OECD 403)	
	LC50/48h	5,012 mg/l (ceriodaphnia Dubai)	
		12,340 mg/l (daphnia magna)	
		8,150 mg/l (Leuciscus idus)	

Primary irritant effect:

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

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

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

• STOT-single exposure May cause drowsiness or dizziness.

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

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

#### · 12.1 Toxicity

· Aquatic toxicity:		
67-64-1 acetone		
EC50/96h	7,200 mg/l (green alge)	
	8,300 mg/l (piscis)	
	8,300 mg/l (lepomis macrochirus)	
	7,500 mg/l (selenastrum capricornutum)	
EC50	1,700 mg/l (bacteria)	
LC50	6,368 mg/l (piscis)	
EC5/16h	1,700 mg/l (pseudomonas putida)	
EC5/72h	28 mg/l (Entosiphon sulcatum)	
EC5/8d	530 mg/l (Microcystis aeruginosa)	
IC5/8d	7,500 mg/l (Scenedesmus quadricauda)	
EC50/48h	3,400 mg/l (green alge)	
	8,800 mg/l (daphnia magna)	
NOEC	1,700 mg/kg (pseudomonas putida)	
	4,740 mg/kg (selenastrum capricornutum)	
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NOELR/28d	2,212 mg/l (daphnia magna)	, , ,
EC50/48h	12,600 mg/l (Danio rerio.)	
	6,100 mg/l (daphnia magna)	
LC50/96h	8,300 mg/l (lem)	
	8,300 mg/l (lepomis macrochirus)	
	7,500 mg/l (Leuciscus idus)	
	5,540 mg/l (Oncorhynchus mykiss)	
	8,120 mg/l (Pimephales promelas)	
115-10-6 din		
EC50/96h	154.9 mg/l (green alge)	
	>4,000 mg/l (poecilia reticulata)	
EC50/48h	>4,000 mg/l (daphnia magna)	
LC50/96h	>4,000 mg/l (poecilia reticulata)	
123-86-4 n-b	· ,	
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)	
NOEC	200 mg/kg (Desmodesmus subspicatus)	
EC50/72h	647.7 mg/l (Desmodesmus subspicatus) (Zellvermehrungshemmtest)	
L030/12II	674 mg/l (Scenedesmus subspicatus)	
LC50/96h	62 mg/l (Danio rerio.)	
LC30/9011	81 mg/l (piscis)	
	100 mg/l (lepomis macrochirus)	
	62 mg/l (Leuciscus idus) (DIN 38412)	
rocation ma	18 mg/l (pimephales promelas) (OECD 203)	
LC50/24h	ss of ethylbenzole and xylole 1 mg/l (daphnia magna)	
EC50/2411 EC50/48h	3.2-9.5 mg/l (daphnia magna)	
NOEC	16 mg/l (BES)	
NOEC	- , , ,	
NOELD/70h	1.3 mg/l (piscis)	
	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)	
04.47.5.4	8.9-16.4 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)	
	12,900 mg/l (Selenastrum capricornutum) (OECD 201)	
EC0	6,500 mg/l (pseudomonas putida)	
EC0 EC10	6,500 mg/l (pseudomonas putida) 5,000 mg/l (scenedesmus quadricauda) 11.5 mg/l (CHV)	



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EC50/72h 275 mg/l (CHV) (OECD 201)

LC50/96h 13,000 mg/l (Oncorhynchus mykiss) (OECD 203)

15,300 mg/l (pimephales promelas)

· 12.2 Persistence and

degradability
 12.3 Bioaccumulative potential
 12.4 Mobility in soil
 No further relevant information available.
 No further relevant information available.

12.4 Mobility in soil
 Additional ecological information:

• General notes: Do not allow undiluted product or large quantities of it to reach ground water,

water course or sewage system.

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.

• 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.

	<u> </u>	
· European waste catalogue		
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS	
	(PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS	
08 01 00	wastes from MFSU and removal of paint and varnish	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE	
	CLOTHING NOT OTHERWISE SPECIFIED	
15 01 00	packaging (including separately collected municipal packaging waste)	
15 01 04	metallic packaging	
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE	
	CLOTHING NOT OTHERWISE SPECIFIED	
15 01 00	packaging (including separately collected municipal packaging waste)	
15 01 10*	packaging containing residues of or contaminated by hazardous substances	

Uncleaned packaging:

Recommendation: Non contaminated packagings may be recycled.

Empty contaminated packagings thoroughly. They may be recycled after

thorough and proper cleaning.

· Recommended cleansing agents: Alcohol

acetone

#### **SECTION 14: Transport information**

· <u>14.1 UN-Number</u> · <u>ADR, IMDG, IATA</u>	UN1950	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR</li> <li>IMDG</li> <li>IATA</li> </ul>	1950 AEROSOLS AEROSOLS AEROSOLS, flammable	
		(Contd. on none 42)

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Trade name: Lettering Colour Spray Antique Silver			
	(Contd. of page 12)		
· 14.3 Transport hazard class(es)			
· <u>ADR</u>			
· <u>Class</u> · Label	2 5F Gases. 2.1		
· IMDG, IATA			
· <u>Class</u> · Label	2.1 2.1		
· <u>14.4 Packing group</u> · <u>ADR, IMDG, IATA</u>	Void		
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No		
14.6 Special precautions for user     Danger code (Kemler):     EMS Number:     Stowage Code      Segregation Code	Warning: Gases.  F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.		
14.7 Transport in bulk according to Annex II     Marpol and the IBC Code	of Not applicable.		
· Transport/Additional information:			
ADR     Limited quantities (LQ)     Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity		
Transport category     Tunnel restriction code	2 D		
IMDG     Limited quantities (LQ)     Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity		
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1		
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### **AKEMI®**

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

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

· Directive 2012/18/EU

· Named dangerous substances -

ANNEX I None of the ingredients is listed.
Seveso category P3a FLAMMABLE AEROSOLS

Qualifying quantity (tonnes) for the

application of lower-tier

requirements 150 t

Qualifying quantity (tonnes) for the

application of upper-tier

requirements 500 t

- REGULATION (EC) No 1907/2006

ANNEX XVII Conditions of restriction: 3

· National regulations:

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

Employment restrictions concerning pregnant and lactating women must be

observed.

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

- VOC EU 702.5 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
 H220 Extremely flammable gas.

H224 Extremely flammable liquid and vapour. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour.

H228 Flammable solid.

H261 In contact with water releases flammable gases. H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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

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

· 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

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

DNEL: Derived No-Effect Level (RÈACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Gas 1: Flammable gases – Category 1

Aerosol 1: Aerosols - Category 1

Press. Gas (Comp.): Gases under pressure - Compressed gas

Flam. Liq. 1: Flammable liquids – Category 1 Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Flam. Sol. 1: Flammable solids – Category 1

Water-react. 3: Substances and mixtures which in contact with water emit flammable gases -

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

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

· Sources REACH directive 1907/2006/EC

\* Data compared to the previous version altered.

Adaptation in accordance with REACH directive 1907/2006/EC

GB