

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/26/2015

Reviewed on 03/26/2015

1 Identification

- **Product identifier**
- Trade name: **Akelux Filler Transparent Liquid**
- Article number: 62001
- **Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- Application of the substance / the mixture Lacquer
UV-Lack
- **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
- Information department: Laboratory
- **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.

2 Hazard(s) identification

- **Classification of the substance or mixture** The product is not classified according to the Globally Harmonized System (GHS).
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Information concerning particular hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- Classification system: The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **Label elements**
- GHS label elements Void
- Hazard pictograms Void
- Signal word Void
- Hazard statements Void
- Classification system:
- NFPA ratings (scale 0 - 4)

0	1	0	Health = 0 Fire = 1 Reactivity = 0
---	---	---	--
- HMIS-ratings (scale 0 - 4)

HEALTH	1	Health = 1
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0
- **Other hazards**
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- Description: Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 2)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/26/2015

Reviewed on 03/26/2015

Trade name: Akelux Filler Transparent Liquid

(Contd. of page 1)

· Dangerous components:

CAS: 72869-86-4	7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12,diaza-hexadecan-1,16-diol-dimetharylat	50-100%
EINECS: 276-957-5	> 80% R52/53	

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

4 First-aid measures

· Description of first aid measures

- General information:** Take affected persons out into the fresh air.
Position and transport stably on side.
Immediately remove any clothing soiled by the product.
- After inhalation:** Take affected persons into fresh air and keep quiet.
Seek medical treatment in case of complaints.
- After skin contact:** If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.
- After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:** A person vomiting while lying on their back should be turned onto their side.
- Most important symptoms and effects, both acute and delayed**
Cramp
Gastric or intestinal disorders
Dizziness
Asthma attacks
Nausea

· Indication of any immediate medical attention and special treatment needed

If swallowed, gastric irrigation with added, activated carbon.

5 Fire-fighting measures

- Extinguishing media**
- Suitable extinguishing agents:** CO2, sand, extinguishing powder. Do not use water.
Use fire fighting measures that suit the environment.
- For safety reasons unsuitable extinguishing agents:** Water
- 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:
Nitrogen oxides (NOx)
Carbon monoxide (CO)
Hydrogen cyanide (HCN)
- Advice for firefighters**
- Protective equipment:** Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
- Additional information**
Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/26/2015

Reviewed on 03/26/2015

Trade name: Akelux Filler Transparent Liquid

(Contd. of page 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.
- **Methods and material for containment and cleaning up:** Dispose of the collected material according to regulations. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **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.

* **7 Handling and storage**

- **Precautions for safe handling** Store in cool, dry place in tightly closed receptacles. Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **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 foodstuffs.
- **Further information about storage conditions:** Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
Store receptacle in a well ventilated area.
Store in cool, dry conditions in well sealed receptacles.
- **Storage class:** 10
- **Specific end use(s)** No further relevant information available.

* **8 Exposure controls/personal protection**

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Apply solvent resistant skin cream before beginning work.
Do not eat, drink, smoke or sniff while working.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
- **Breathing equipment:** Short term filter device:

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/26/2015

Reviewed on 03/26/2015

Trade name: Akelux Filler Transparent Liquid (Contd. of page 3)

Filter A/P2
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands: Preventive skin protection by use of skin-protecting agents is recommended. After use of gloves apply skin-cleaning agents and skin cosmetics.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 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 Butyl rubber, BR
 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 The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Not suitable are gloves made of the following materials:
 Natural rubber, NR
 Leather gloves
 Strong gloves
 Rubber gloves

· Eye protection:  Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· General Information

· Appearance:

Form:	Fluid
Color:	Clear
· <u>Odor:</u>	Specific type

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

· Flash point: > 150 °C (> 302 °F)

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

· Density at 20 °C (68 °F): 1 g/cm³ (8.345 lbs/gal)

· Specific gravity at 20 °C (68 °F): 1 g/cm³ (8.345 lbs/gal)

· Solubility in / Miscibility with Water: Not miscible or difficult to mix.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/26/2015

Reviewed on 03/26/2015

Trade name: Akelux Filler Transparent Liquid

(Contd. of page 4)

· <u>Viscosity:</u>	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	180 s (DIN 53211/4)
· <u>Solvent separation test</u>	< 3 %
· <u>Solvent content:</u>	
Organic solvents:	0.0 %
Solids content:	15.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- Thermal decomposition / conditions to be avoided: Rapid decomposition by heating (e. g. direct sunlight or heater).
- **Possibility of hazardous reactions** Exothermic polymerization.
Reacts with peroxides.
Reacts with heavy metals.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Nitrogen oxides (NOx)
Carbon monoxide

11 Toxicological information

· **Information on toxicological effects**

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	2353 mg/kg (rat)
------	------	------------------

72869-86-4 7,7,9-Trimethyl-4,13-dioxo-3,14-dioxo-5,12,diaza-hexadecan-1,16-diol-dimetharylat > 80%

Oral	LD50	> 2000 mg/kg (rat)
------	------	--------------------

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/26/2015

Reviewed on 03/26/2015

Trade name: Akelux Filler Transparent Liquid

(Contd. of page 5)

12 Ecological information

· Toxicity

· Aquatic toxicity:

72869-86-4 7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12,diaza-hexadecan-1,16-diol-dimetharylat > 80%

LC50/96h | 10.1 mg/l (piscis)

· **Persistence and degradability**

No further relevant information available.

· **Bioaccumulative potential**

No further relevant information available.

· **Mobility in soil**

No further relevant information available.

· Ecotoxicological 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 (Self-assessment): slightly hazardous for water

· **Results of PBT and vPvB assessment**

· PBT:

Not applicable.

· vPvB:

Not applicable.

· **Other adverse effects**

No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

· Recommendation:

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

14 Transport information

· **UN-Number**

· DOT, ADR, ADN, IMDG, IATA

Void

· **UN proper shipping name**

· DOT, ADR, ADN, IMDG, IATA

Void

· **Transport hazard class(es)**

· DOT, ADR, ADN, IMDG, IATA

· Class

Void

· **Packing group**

· DOT, ADR, IMDG, IATA

Void

· **Environmental hazards:**

· Marine pollutant:

No

· **Special precautions for user**

Not applicable.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· Transport/Additional information:

Not dangerous according to the above specifications.

· UN "Model Regulation":

-

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/26/2015

Reviewed on 03/26/2015

Trade name: Akelux Filler Transparent Liquid

(Contd. of page 6)

*** 15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Sara

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements Void

· Hazard pictograms Void

· Signal word Void

· Hazard statements Void

· National regulations:

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

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

· VOC USA 0.0 g/l

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*** 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.

· Department issuing SDS: Laboratory
 · Contact: Dieter Zimmermann
 Elke Hake
 Fon ++49 (0)911 64296-59
 @mail E.Hake@akemi.de

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/26/2015

Reviewed on 03/26/2015

Trade name: Akelux Filler Transparent Liquid

(Contd. of page 7)

- Date of preparation / last revision 03/26/2015 / 1
- 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)
 - 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 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
 - DOT: US Department of Transportation
 - IATA: International Air Transport Association
 - ACGIH: American Conference of Governmental Industrial Hygienists
 - 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)
 - NFPA: National Fire Protection Association (USA)
 - HMIS: Hazardous Materials Identification System (USA)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
- International Product Registration Status USA (Toxic Substances Control Act, TSCA)

USA