

Printing date 01/07/2008

Reviewed on 01/07/2008

1 Identification of substance

Product details

 Trade name: **Akelux Filler Transparent Liquid**

Article number: 62001

Application of the substance / the preparation

 Lacquer
 UV-Lack

Manufacturer/Supplier:

 AKEMI chemisch technische Spezialfabrik GmbH
 Lechstrasse 28
 D 90451 Nürnberg

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

Information department:

 Laboratory
 Dieter Zimmermann
 @mail_D.Zimmermann@akemi.de

Emergency information:

 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 Composition/Data on components

Chemical characterization

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

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%	
	R 52/53	

Additional information:

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

3 Hazards Identification

Hazard description:


Not applicable.

Information pertaining to particular dangers for man 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. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

NFPA ratings (scale 0 - 4)

 Health = 0
 Fire = 1
 Reactivity = 0

HMIS-ratings (scale 0 - 4)

 HEALTH 0 Health = 0
 FIRE 1 Fire = 1
 REACTIVITY 0 Reactivity = 0

GHS label elements

4.1/3 - Harmful to aquatic life with long lasting effects.

Prevention:

Avoid release to the environment.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

4 First aid measures

General information:

 Immediately remove any clothing soiled by the product.
 Take affected persons out into the fresh air.

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- Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Position and transport stably on side.
- **After inhalation:** Take affected persons into fresh air and keep quiet.
In case of unconsciousness place patient stably in side position for transportation.
 - **After skin contact:** Seek medical treatment in case of complaints.
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
 - **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
 - **After swallowing:** Do not induce vomiting; immediately call for medical help.
Drink copious amounts of water and provide fresh air. Immediately call a doctor.
A person vomiting while lying on their back should be turned onto their side.
 - **Information for doctor:**
 - **The following symptoms may occur:**
 - Cramp
 - Gastric or intestinal disorders
 - Dizziness
 - Asthma attacks
 - Nausea
 - **Treatment:** If swallowed, gastric irrigation with added, activated carbon.

5 Fire fighting measures

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water
- **Special hazards caused by the material, its products of combustion or resulting gases:** Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Nitrogen oxides (NO_x)
Carbon monoxide (CO)
Hydrogen cyanide (HCN)
- **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

- **Person-related safety precautions:** Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **Measures for environmental protection:** Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Dispose of the collected material according to regulations.
- **Additional information:** 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.

7 Handling and storage

- **Handling:**
- Information for safe handling: Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
Protect from heat.
- **Storage:**
- Requirements to be met by storerooms and receptacles: Store in a cool location.
Store only in the original receptacle.
Prevent any seepage into the ground.
- Information about storage in one common storage facility: Do not store together with oxidizing and acidic materials as well as heavy-metal compounds.
Do not store together with alkalis (caustic solutions).
- Further information about storage conditions: Keep receptacle tightly sealed.
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

8 Exposure controls and personal protection

- Additional information about design of technical systems: No further data; see item 7.
- 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.
- **Personal protective equipment:**
- General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.
Apply solvent resistant skin cream before beginning work.
Do not eat, drink, smoke or sniff while working.
- Breathing equipment: 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.
Short term filter device:
Filter A/P2
- Protection of hands:



Protective gloves

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

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- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Preventive skin protection by use of skin-protecting agents is recommended.
After use of gloves apply skin-cleaning agents and skin cosmetics.
- 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

· General Information

Form:	Fluid
Color:	Clear Yellowish
Odor:	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

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Viscosity:

Kinematic at 20°C (68°F): 180 s (DIN 53211/4)

· **Solvent separation test** < 3 %

· Solvent content:

Organic solvents: 0.0 %

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.
Rapid decomposition by heating (e. g. direct sunlight or heater).

· Dangerous reactions

Exothermic polymerization.

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· **Dangerous products of decomposition:**

Reacts with peroxides.
Reacts with heavy metals.

Nitrogen oxides (NOx)
Carbon monoxide

* **11 Toxicological information**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:**

72869-86-4 7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-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.

* **12 Ecological information**· **Ecotoxicological effects:**· **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)

· **Remark:**

Harmful to fish

· **General notes:**

Do not allow product to reach ground water, water course or sewage system.
Water hazard class 1 (Self-assessment): slightly hazardous for water
Harmful to aquatic organisms

13 Disposal considerations· **Product:**

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

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

14 Transport information· **DOT regulations:**· **Hazard class:** -· **Land transport ADR/RID (cross-border):**· **ADR/RID class:** -· **Maritime transport IMDG:**· **IMDG Class:** -· **Marine pollutant:** No· **Air transport ICAO-TI and IATA-DGR:**· **ICAO/IATA Class:** -· **UN "Model Regulation":**

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15 Regulations

· 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):

None of the ingredients is 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.

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

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.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· **Product related hazard Informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· Risk phrases:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

· Safety phrases:

Keep out of the reach of children.
Do not breathe gas/fumes/vapour/spray.
Avoid contact with skin and eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point
Wear suitable protective clothing, gloves and eye/face protection.
If swallowed, seek medical advice immediately and show this container or label.

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Use only in well-ventilated areas.

- **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

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 MSDS:**

Laboratory

- **Contact:**

Dr. Christian Schelle
Fon ++49 (0)911 64296-59
@mail C.Schelle@akemi.de

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Reglement internationale concernent le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

- **International Product Registration Status**

USA (Toxic Substances Control Act, TSCA)

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