## Safety Data Sheet acc. to OSHA HCS

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Printing date 03/30/2015 Reviewed on 03/30/2015

1 Identification

· Product identifier

· Trade name: **Akelux Retouching Pen** 

· Article number: 62030

· Relevant identified uses of the substance or mixture and uses

advised against

No further relevant information available. · Application of the substance / the

mixture

Dyestuff/Colouring agent

· Details of the supplier of the safety data sheet

AKEMI chemisch technische Spezialfabrik GmbH Manufacturer/Supplier:

Tel. +49(0)911-642960 Lechstrasse 28 Fax. +49(0)911-644456 e-mail info@akemi.de D 90451 Nürnberg

· Information department: Laboratory

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH · Emergency telephone number:

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



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 Health hazard

H350 May cause cancer.



GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Flammable.

· Information concerning particular

hazards for human and

· Classification system:

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. 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 The product is classified and labeled according to the Globally Harmonized

System (GHS).

· Hazard pictograms





GHS02 GHS07

· Signal word Danger

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# Safety Data Sheet

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**Trade name: Akelux Retouching Pen** 

Hazard-determining components

of labeling: ethanol

1-methoxy-2-propanol

Hazard statements
 H226 Flammable liquid and vapour.

H350 May cause cancer.

H336 May cause drowsiness or dizziness.

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/sparks/open flames/hot surfaces. - No

smoking.

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

protection.

P261 Avoid breathing vapours.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes.

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

rınsıng.

P314 Get medical advice/attention if you feel unwell.

P302+P352 If on skin: Wash with plenty of water.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/

regional/national/international regulations.

region

· Classification system:

· NFPA ratings (scale 0 - 4)

0 0

Health = 0 Fire = 3

Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH 0
FIRE 3
REACTIVITY 0

Health = 0 Fire = 3 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.

- Dangerous components:			
CAS: 107-98-2	1-methoxy-2-propanol	R10	50-100%
EINECS: 203-539-1		♠ Flam. Liq. 3, H226	
Index number: 603-064-00-3		♦ STOT SÉ 3, H336	
CAS: 64-17-5	ethanol	▶ F R11	25-50%
EINECS: 200-578-6		♠ Flam. Liq. 2, H225	
Index number: 603-002-00-5		🕸 Carc. 1A, H350	

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

### 4 First-aid measures

### · Description of first aid measures

• After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact: Generally the product does not irritate the skin.

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

• After swallowing: If symptoms persist consult doctor.

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**Trade name: Akelux Retouching Pen** 

· Most important symptoms and effects, both acute and delayed

Breathing difficulty

Headache Dizziness Dizziness

Gastric or intestinal disorders

Nausea

· Information for doctor: Symptoms in alcohol intoxication:

a) acute intoxication: euphoria, inhibitions, disturbances in co-ordination; in

severe cases insensibility, respiratory dysfunction.

b) chronic intoxication: CNS-, hepatic and cardiac dysfunctions with change of

personality, alcohol induced hepatitis and reduced cardiac power.

Therapy in alcohol intoxication:

Danger of impaired breathing.

In acute intoxication observation of circulatory system, artifical breathing when

indicated, gastrolavage, peritoneal or hemodialysis.

Danger

Indication of any immediate

medical attention and special

**treatment needed** If swallowed, gastric irrigation with added, activated carbon.

## 5 Fire-fighting measures

Extinguishing media

• <u>Suitable extinguishing agents:</u> CO2, extinguishing powder or water spray. Fight larger fires with water spray or

alcohol resistant foam.

· Special hazards arising from the

substance or mixture Form

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)

· Advice for firefighters

· <u>Protective equipment:</u> Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

Additional information
 Cool endangered receptacles with water spray.

#### 6 Accidental release measures

· 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.

• 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.

Dilute with plenty of water.

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

Methods and material for

containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal

binders, sawdust).

• **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.

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Trade name: Akelux Retouching Pen

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7 Handling and storage

• Precautions for safe handling Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Information about protection

against explosions and fires: Highly volatile, flammable constituents are released during processing.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Store only in the original receptacle.

· Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by

storerooms and receptacles:Information about storage in one

common storage facility:

Store away from foodstuffs.

Store away from flammable substances.

· Further information about storage

conditions:

Store receptacle in a well ventilated area.

Keep receptacle tightly sealed.

· **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:

#### 107-98-2 1-methoxy-2-propanol

REL Short-term value: 540 mg/m³, 150 ppm Long-term value: 360 mg/m³, 100 ppm

TLV Short-term value: 369 mg/m³, 100 ppm Long-term value: 184 mg/m³, 50 ppm

### 64-17-5 ethanol

PEL Long-term value: 1900 mg/m³, 1000 ppm REL Long-term value: 1900 mg/m³, 1000 ppm TLV Short-term value: 1880 mg/m³, 1000 ppm

Additional information: The lists that were valid during the creation were used as basis.

#### 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.

Wash hands before breaks and at the end of work.

• <u>Breathing equipment:</u> Suitable respiratory protective device recommended.

Filter AX

• <u>Protection of hands:</u> Preventive skin protection by use of skin-protecting agents is recommended.

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



Protective gloves

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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

<u>Material of gloves</u>
 Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.75 \text{ mm}$ 

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

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:

Leather gloves Natural rubber, NR Strong 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: According to product specification

- Odor: Specific type

· Change in condition

Melting point/Melting range:

Boiling point/Boiling range:

Undetermined.
78 °C (172 °F)

· Flash point: 23 °C (73 °F)

• <u>Ignition temperature:</u> 270 °C (518 °F)

· Auto igniting: Product is not selfigniting.

• <u>Danger of explosion:</u> Product is not explosive. However, formation of explosive air/vapor mixtures are

possible.

Explosion limits:

<u>Lower:</u> 2.3 Vol % <u>Upper:</u> 20.0 Vol %

· Vapor pressure at 20 °C (68 °F): 59 hPa (44 mm Hg)

Density at 20 °C (68 °F): 0.92 g/cm³ (7.677 lbs/gal)

- Specific gravity at 20 °C (68 °F): 0.9 g/cm³ (7.511 lbs/gal)

· Solubility in / Miscibility with

Water: Fully miscible.

· Viscosity:

Dynamic: Not determined.

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Trade name: Akelux Retouching Pen

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Kinematic at 20 °C (68 °F): 13 s (DIN 53211/4)

Solvent content:
Organic solvents: 92.0 %

Solids content: 8.0 %
Other information No further relevant information available.

#### 10 Stability and reactivity

· Reactivity

· Chemical stability

Thermal decomposition / conditions to be avoided:

conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous

reactions Reacts with acids, alkalis and oxidizing agents.

Conditions to avoid No further relevant information available

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

· Hazardous decomposition

products: Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

#### 11 Toxicological information

· Information on toxicological effects

Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimates)OralLD507369 mg/kg (rat)DermalLD502174 mg/kgInhalativeLC50/4 h75.8 mg/l (rat)

· Primary irritant effect:

on the skin:on the eye:No irritant effect.No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

64-17-5 ethanol 1

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

#### 12 Ecological information

Toxicity

Aquatic toxicity:
 Persistence and degradability
 Bioaccumulative potential
 Mobility in soil
 No further relevant information available.
 No further relevant information available.
 No further relevant information available.

· Additional ecological information:

• General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water

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**Trade name:** Akelux Retouching Pen

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· 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: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

#### 14 Transport information

<u>UN-Number</u>
 DOT, ADR, IMDG, IATA
 UN1263

· UN proper shipping name

- <u>DOT</u> Paint

· ADR 1263 Paint, special provision 640E

· IMDG, IATA PAINT

## · Transport hazard class(es)

· DOT



· Class 3 Flammable liquids

· Label 3

· ADR



· Class 3 (F1) Flammable liquids

· Label 3

· IMDG, IATA



· Class 3 Flammable liquids

· Label 3

· Packing group

· DOT, ADR, IMDG, IATA

· Environmental hazards:

· Marine pollutant: No

• Special precautions for user Warning: Flammable liquids

- Danger code (Kemler): 30

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Trade name: Akelux Retouching Pen (Contd. of page 7) · EMS Number: F-E,S-E · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · Quantity limitations On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L ADR Code: E1 Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml · 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 UN "Model Regulation": UN1263, Paint, special provision 640E, 3, III

#### 15 Regulatory information

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

64-17-5 ethanol

64-17-5 ethanol

- Cancerogenity categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

MAK (German Maximum Workplace Concentration)

64-17-5 ethanol 5

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

None of the ingredients is listed.

· GHS label elements The product is classified and labeled according to the Globally Harmonized

System (GHS).

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Trade name: Akelux Retouching Pen

Hazard pictograms







GHS07

· Signal word Danger

· Hazard-determining components

of labeling:

ethanol

1-methoxy-2-propanol

H226 Flammable liquid and vapour. · Hazard statements

H350 May cause cancer.

H336 May cause drowsiness or dizziness.

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

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No

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

protection.

P261 Avoid breathing vapours.

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.

If on skin: Wash with plenty of water. P302+P352 Store in a well-ventilated place. Keep cool. P403+P235

Dispose of contents/container in accordance with local/ P501

regional/national/international regulations.

· National regulations:

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

· VOC USA 846.4 q/l / 7.06 lb/ql

· 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

· Date of preparation / last revision

03/30/2015 / 1

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de · Abbreviations and acronyms:

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)

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**Trade name: Akelux Retouching Pen** 

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HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LCSO. Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Carc. 1A: Carcinogenicity, Hazard Category 1A
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

USA