

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/30/2015

Reviewed on 03/30/2015

## 1 Identification

### Product identifier

Trade name: **Akelux Polishing Paste**

Article number: 62029

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

No further relevant information available.

Application of the substance / the mixture

Polishing agent/ Burnishing compound

### Details of the supplier of the safety data sheet

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

### 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

H227 Combustible liquid.

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

Repeated exposure may cause skin dryness or cracking.

Information concerning particular hazards for human and environment:

Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.

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.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

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

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms

Void

Signal word

Warning

Hazard statements

H227 Combustible liquid.

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.

Classification system:

NFPA ratings (scale 0 - 4)

Health = 0  
Fire = 2  
Reactivity = 0

HMIS-ratings (scale 0 - 4)

HEALTH 0 Health = 0  
FIRE 2 Fire = 2  
REACTIVITY 0 Reactivity = 0

### Other hazards

Results of PBT and vPvB assessment

PBT:

Not applicable.

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· vPvB: Not applicable.

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### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· Dangerous components:

CAS: 64741-65-7 EINECS: 265-067-2 Index number: 649-275-00-4	Naphtha (petroleum), heavy alkylate Xn R65 R53-66 <hr style="border-top: 1px dashed black;"/> Flam. Liq. 3, H226 Acute Tox. 3, H331 Asp. Tox. 1, H304	12.5-25%
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· 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: Immediately remove any clothing soiled by the product.  
Take affected persons out into the fresh air.
- After inhalation: In case of irregular breathing or respiratory arrest provide artificial respiration.  
Take affected persons into fresh air and keep quiet.  
Supply fresh air; consult doctor in case of complaints.  
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: 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: Do not induce vomiting; immediately call for medical help.  
Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- **Most important symptoms and effects, both acute and delayed** Breathing difficulty  
Headache  
Dizziness  
Dizziness  
Gastric or intestinal disorders  
Unconsciousness  
Nausea
- Information for doctor: 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** Danger of impaired breathing.
- **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.

### 5 Fire-fighting measures

- **Extinguishing media**
- Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet

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- **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)
- **Advice for firefighters**
- **Protective equipment:** 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.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### 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 clothing.
- **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:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
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** Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
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:** Keep ignition sources away - Do not smoke.  
Traces of flammable substances may collect in the steam chamber of enclosed systems. Keep ignition sources clear.  
Fumes can combine with air to form an explosive mixture.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.  
Store only in the original receptacle.
- **Information about storage in one common storage facility:** Do not store together with oxidizing and acidic materials.  
Do not store together with alkalis (caustic solutions).
- **Further information about storage conditions:** Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.  
Protect from frost.

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

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**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.  
 The lists that were valid during the creation were used as basis.

· Additional information:

· **Exposure controls**  
 · 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.  
 Wash hands before breaks and at the end of work.  
 Do not inhale gases / fumes / aerosols.  
 Avoid contact with the eyes and skin.  
 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.  
 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  
 Nitrile rubber, NBR  
 Recommended thickness of the material:  $\geq 0.75$  mm

· Penetration time of glove material

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.  
 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

· Eye protection:



Tightly sealed goggles

· Body protection:

Protective work clothing

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**9 Physical and chemical properties**

**Information on basic physical and chemical properties**

**General Information**

**Appearance:**

Form:	Fluid
Color:	White
Odor:	Specific type

**Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)

Flash point: 64 °C (147 °F)

Ignition temperature: 354 °C (669 °F)

Auto igniting: Product is not selfigniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

**Explosion limits:**

Lower:	0.7 Vol %
Upper:	6.5 Vol %

Vapor pressure at 20 °C (68 °F): 23 hPa (17 mm Hg)

Density at 20 °C (68 °F): 0.93 g/cm<sup>3</sup> (7.761 lbs/gal)

Specific gravity at 20 °C (68 °F): 1.1 g/cm<sup>3</sup> (9.18 lbs/gal)

**Solubility in / Miscibility with**

Water: Insoluble.

**Viscosity:**

Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	999 s (DIN 53211/4)

Solvent separation test < 3 %

**Solvent content:**

Organic solvents:	24.9 %
Water:	60.0 %

**Other information**

No further relevant information available.

**10 Stability and reactivity**

**Reactivity**

**Chemical stability**

**Thermal decomposition / 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.

**Incompatible materials:**

No further relevant information available.

**Hazardous decomposition products:**

Carbon monoxide and carbon dioxide  
Nitrogen oxides (NOx)

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**11 Toxicological information**

**Information on toxicological effects**

Acute toxicity:

LD/LC50 values that are relevant for classification:

**ATE (Acute Toxicity Estimates)**

Dermal	LD50	12048 mg/kg (rbt)
Inhalative	LC50/4 h	31.3 mg/l (rat)

**64741-65-7 Naphtha (petroleum), heavy alkylate**

Oral	LD50	> 6000 mg/kg (rat)
Dermal	LD50	> 3000 mg/kg (rbt)
Inhalative	LC50/4 h	> 7.8 mg/l (rat)

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

Sensitization: Sensitization possible through inhalation.

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.

**12 Ecological information**

**Toxicity**

Aquatic toxicity: No further relevant information available.

**Persistence and degradability** No further relevant information available.

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** 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 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: Disposal must be made according to official regulations. Non contaminated packagings can be reused.

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**14 Transport information**

<b>· UN-Number</b>	
· DOT, ADR, ADN, IMDG, IATA	Void
<b>· UN proper shipping name</b>	
· DOT, ADR, ADN, IMDG, IATA	Void
<b>· Transport hazard class(es)</b>	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
<b>· Packing group</b>	
· DOT, ADR, IMDG, IATA	Void
<b>· Environmental hazards:</b>	
· Marine pollutant:	No
<b>· Special precautions for user</b>	Not applicable.
<b>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· UN "Model Regulation":	-

**15 Regulatory information**

<b>· Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
· 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.
· Cancerogenity 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.

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- GHS label elements                      The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms                      Void
- Signal word                                Warning
- Hazard statements                      H227 Combustible liquid.
- 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.
  
- 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                                    231.6 g/l / 1.93 lb/gl
- **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:                                    Elke Hake  
Fon ++49 (0)911 64296-59  
@mail E.Hake@akemi.de
  
- Date of preparation / last revision    03/30/2015 / 2
- 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  
Flam. Liq. 3: Flammable liquids, Hazard Category 3  
Acute Tox. 3: Acute toxicity, Hazard Category 3  
Asp. Tox. 1: Aspiration hazard, Hazard Category 1

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