

Technical Instruction Sheet

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- Characteristics:** AKEMI® Oil and Grease Remover Paste is a product which contains solvents and special absorbent substances. It is characterized by the following properties:
- suitable for all kinds of natural and artificial stone
 - extremely effective, even in case of intensive staining
 - does not contain acids, leaching agents, waxes, resins or silicones
 - low odour
 - has a pliant, creamy consistency and can therefore also be easily applied to smooth and polished surfaces and has a good adhesion on the surface
- Field of Application:** AKEMI® Oil and Grease Remover Paste is used on all kinds of natural and artificial stone to remove grease, oil and wax stains as well as discolouration in border areas resulting from plasticizers in sealing materials.
- Instructions for Use:**
1. Surfaces to be treated must be dry.
 2. In the case of discolouration in border areas, the sealant must be removed thoroughly from the joint.
 3. Apply AKEMI® Oil and Grease Remover Paste with a brush or spatula (1-2 mm layer at least); recommended working temperature: 5-25°C (41-77°F).
 4. After drying (approx. 30 – 60 min.), the residue must be swept off, sucked off or wiped away.
 5. In the case of intensive staining and if required, the procedure is to be repeated (several times if necessary).
 6. It is recommended to apply AKEMI® Stone Cleaner as a final cleaning measure.
- Special Hints:**
- You should use AKEMI® Liquid Glove to protect your hands when working with the product.
 - It is recommended to test the effect of the product on an inconspicuous area first.
 - In order to ensure orderly disposal, the tube must be emptied completely.
- Safety Measures:** see EC Safety Data Sheet
- Technical Data:**
- | | |
|-------------|---|
| Colour: | light grey |
| Density: | 1.40 g/cm ³ |
| Shelf life: | 2 years if stored in cool place free from frost in its tightly closed original container. |
- Notice:** The above information is based on the latest stage of our development and application technology. Due to a multiplicity of different influencing factors, this information – as well as other oral or written technical advises – must be considered as non-binding hints. The user is obliged in each particular case to conduct performance tests, including but not limited to trials of the product, in an inconspicuous area or fabrication of a sample piece.

TIS 09.13

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.03.2021

Version number 16

Revision: 18.03.2021

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

1.1 Product identifier

Trade name: **Oil and Grease Remover Paste**

Article number: 10896

UFI: NRA0-F01P-M006-HAA6

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

No further relevant information available.

Application of the substance / the mixture

Oil stain remover

1.3 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

Further information obtainable from:

Laboratory

1.4 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.
+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

Flam. Liq. 3 H226 Flammable liquid and vapour.

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Storage: Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

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

Signal word

Warning

Hazard-determining components of labelling:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

Hazard statements

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P103

Read carefully and follow all instructions.

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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P312	IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
EUH066	Repeated exposure may cause skin dryness or cracking.

· Additional information:· **2.3 Other hazards**· Results of PBT and vPvB assessment· PBT: Not applicable.· vPvB: Not applicable.**SECTION 3: Composition/information on ingredients**· **3.2 Chemical characterisation: Mixtures**· Description: Mixture of substances listed below with nonhazardous additions.· Dangerous components:

EC number: 927-241-2 Reg.nr.: 01-2119471843-32	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 3, H412	12.5-25%
EC number: 932-020-9 Reg.nr.: 01-2119548395-31	Kohlenwasserstoffe, C8-C9, Isoalkane Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H336	<10%

· Regulation (EC) No 648/2004 on detergents / Labelling for contentsaliphatic hydrocarbons ≥15 - <30%· Additional information: For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures**· **4.1 Description of first aid measures**

- General information: Take affected persons out into the fresh air.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Rinse out mouth and then drink plenty of water.
- 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.

· **4.2 Most important symptoms and effects, both acute and delayed**

Headache
Dizziness
Dizziness

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· **4.3 Indication of any immediate medical attention and special treatment needed**

If swallowed, gastric irrigation with added, activated carbon.

* **SECTION 5: Firefighting measures**

· **5.1 Extinguishing media**

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

· **5.2 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)
Under certain fire conditions, traces of other toxic gases cannot be excluded.

· **5.3 Advice for firefighters**

· **Protective equipment:** Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
Wear fully protective suit.

* **SECTION 6: Accidental release measures**

· **6.1 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.

· **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.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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**

Store in cool, dry place in tightly closed receptacles.
Keep receptacles tightly sealed.
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.

· **Information about fire - and explosion protection:**

No special measures required.

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

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

· **Information about storage in one common storage facility:**

Store away from oxidising agents.
Store away from foodstuffs.

· **Further information about storage conditions:**

Store in dry conditions.

· **Storage class:**

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Trade name: Oil and Grease Remover Paste**· 7.3 Specific end use(s)**

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For application profile please refer to applicable section within the "Technical Data Sheet"

SECTION 8: Exposure controls/personal protection**· 8.1 Control parameters**

· Additional information about design of technical facilities:

No further data; see item 7.

· Ingredients 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.

· DNELs**Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics**

Oral	DNEL (Langzeit-wiederholt)	125 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	300 mg/kg bw/day (ARB)
		300 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	900 mg/m ³ Air (ARB)
		1,500 mg/m ³ Air (BEV)

· Additional information:

The lists valid during the making were used as basis.

· 8.2 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.
 Clean skin thoroughly immediately after handling the product.
 Wash hands before breaks and at the end of work.
 Do not inhale gases / fumes / aerosols.

· Respiratory protection:

Not necessary if room is well-ventilated.
 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.

· 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.
 Skin protection agent recommendation for preventive skin shelter without use of protective gloves:

STOKODERM (<http://www.stoko.com>)

Skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:

STOKO EMULSION (<http://www.stoko.com>)

Skin protection recommendation for skin cleaning after product handling:

FRAPANTOL (<http://www.stoko.com>)

Skin protection agent recommendation for skin aftercare:

STOKO VITAN (<http://www.stoko.com>)

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 analyses 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>).

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**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

Fluorocarbon rubber (Viton)
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 6, 480 min

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:

Fluorocarbon rubber (Viton)
Vitoject (KCL, Art_No. 890)
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
Chloroprene rubber, CR
Leather gloves
Strong material gloves

· Eye protection:

Goggles recommended during refilling

· Body protection:

Protective work clothing

* **SECTION 9: Physical and chemical properties**· **9.1 Information on basic physical and chemical properties**· General Information· Appearance:

<u>Form:</u>	Pasty
<u>Colour:</u>	Light grey
<u>Odour:</u>	Characteristic

<u>pH-value:</u>	Not applicable
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· Change in condition

<u>Melting point/freezing point:</u>	Undetermined.
<u>Initial boiling point and boiling range:</u>	132 °C

<u>Flash point:</u>	56 °C
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<u>Ignition temperature:</u>	240 °C
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<u>Auto-ignition temperature:</u>	Product is not selfigniting.
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<u>Explosive properties:</u>	Product does not present an explosion hazard.
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· <u>Explosion limits:</u>	
<u>Lower:</u>	0.6 Vol %
<u>Upper:</u>	7 Vol %
· <u>Vapour pressure at 20 °C:</u>	1 hPa
· <u>Density at 20 °C:</u>	1.42 g/cm ³
· <u>Solubility in / Miscibility with water:</u>	Not miscible or difficult to mix.
· <u>Viscosity:</u>	
<u>Dynamic at 20 °C:</u>	60,000 mPas
<u>Kinematic:</u>	Not determined.
· <u>Solvent content:</u>	
<u>Organic solvents:</u>	29.1 %
<u>Solids content:</u>	72.4 %
· 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	
· <u>Thermal decomposition / conditions to be avoided:</u>	No decomposition if used and stored according to specifications.
· 10.3 Possibility of hazardous reactions	Reacts with strong oxidising agents.
· 10.4 Conditions to avoid	No further relevant information available.
· 10.5 Incompatible materials:	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	
· <u>Acute toxicity</u>	Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

Oral	LD50	4,951 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	4,951 mg/l (rat)

· <u>Primary irritant effect:</u>	
· <u>Skin corrosion/irritation</u>	Based on available data, the classification criteria are not met.
· <u>Serious eye damage/irritation</u>	Based on available data, the classification criteria are not met.
· <u>Respiratory or skin sensitisation</u>	Based on available data, the classification criteria are not met.
· <u>Additional toxicological information:</u>	
· <u>CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)</u>	
· <u>Germ cell mutagenicity</u>	Based on available data, the classification criteria are not met.
· <u>Carcinogenicity</u>	Based on available data, the classification criteria are not met.
· <u>Reproductive toxicity</u>	Based on available data, the classification criteria are not met.
· <u>STOT-single exposure</u>	May cause drowsiness or dizziness.
· <u>STOT-repeated exposure</u>	Based on available data, the classification criteria are not met.
· <u>Aspiration hazard</u>	Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information**12.1 Toxicity**· Aquatic toxicity:**Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics**

EL50/48h	>22-<46 mg/l (daphnia magna)
EL50/72h	>1,000 mg/l (Pseudokirchneriella subcapitata)
LL50/96h	>10-<30 mg/l (Oncorhynchus mykiss)

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

· 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 2 (German Regulation) (Self-assessment): 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.

· Uncleaned packaging:· Recommendation:

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

· Recommended cleansing agents:

Alcohol

SECTION 14: Transport information**14.1 UN-Number**· ADR, IMDG, IATA

UN3295

14.2 UN proper shipping name· ADR· IMDG· IATA

3295 HYDROCARBONS, LIQUID, N.O.S.

HYDROCARBONS, LIQUID, N.O.S.

HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics)

14.3 Transport hazard class(es)· ADR· Class

3 (F1) Flammable liquids.

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· <u>Label</u>	3
· <u>IMDG, IATA</u>	
	
· <u>Class</u>	3 Flammable liquids.
· <u>Label</u>	3
· 14.4 Packing group	
· <u>ADR, IMDG, IATA</u>	III
· 14.5 Environmental hazards:	
· <u>Marine pollutant:</u>	No
· 14.6 Special precautions for user	Warning: Flammable liquids.
· <u>Hazard identification number (Kemler code):</u>	30
· <u>EMS Number:</u>	F-E,S-D
· <u>Stowage Category</u>	E
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· <u>Transport/Additional information:</u>	
· <u>ADR</u>	
· <u>Excepted quantities (EQ)</u>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <u>IMDG</u>	
· <u>Limited quantities (LQ)</u>	5L
· <u>Excepted quantities (EQ)</u>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <u>UN "Model Regulation":</u>	UN 3295 HYDROCARBONS, LIQUID, N.O.S., 3, III

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 P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- National regulations:
- Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- VOC EU 411.9 g/l
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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