

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/21/2014

Reviewed on 01/21/2014

1 Identification

· Product identifier

- Trade name: **Stone Polish - silicone based**
- Article number: 10844, 10842 / 10843, 10978/10979
- 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



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

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



Dangerous for the environment

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

Flammable. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

· 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.
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



GHS02

· Signal word

Warning

· Hazard statements

H226 Flammable liquid and vapour.

· 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.

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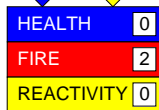
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P280 Wear protective gloves.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**
 · NFPA ratings (scale 0 - 4)



Health = 0
 Fire = 2
 Reactivity = 0

· HMS-ratings (scale 0 - 4)



Health = 0
 Fire = 2
 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: 93685-81-5 EINECS: 297-629-8	Kohlenwasserstoffe, C4-, 1,3-Butadien-frei, polymerisiert, Triisobutylfraktion, hydriert Xn R65 R10-53-66 Flam. Liq. 3, H226; Asp. Tox. 1, H304	25-50%
EC number: 923-037-2	Kohlenwasserstoffe, C10-C12, Isoalkane, <2% Aromaten Xn R65; N R51/53 R10-66 Flam. Liq. 3, H226; Asp. Tox. 1, H304	25-50%
CAS: 64741-65-7 EINECS: 265-067-2 Index number: 649-275-00-4	Naphtha (petroleum), heavy alkylate Xn R65 R53-66 Flam. Liq. 3, H226; Acute Tox. 3, H331; Asp. Tox. 1, H304	1-5%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	propan-2-ol Xi R36; F R11 R67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	<1%

· 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.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- 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.

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- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

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
- **Special hazards arising from the substance or mixture** Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** 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

- **Handling:**
- Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- **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.

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· Control parameters

· Components with limit values that require monitoring at the workplace:

67-63-0 propan-2-ol

PEL	Long-term value: 980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm BEI

· Ingredients with biological limit values:

67-63-0 propan-2-ol

BEI	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
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· Additional information: The lists that were valid during the creation were used as basis.

· 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.
 Immediately remove all soiled and contaminated clothing.
 Do not inhale gases / fumes / aerosols.
 Avoid contact with the eyes and skin.
 Do not eat, drink, smoke or sniff while working.
 Use skin protection cream for skin protection.
 Clean skin thoroughly immediately after handling the product.

· Breathing equipment:

Not necessary if room is well-ventilated.

· 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.
 Akemi skin protection agent recommendation for preventive skin shelter without use of protective gloves:
 STOKODERM (<http://www.stoko.com>)
 Akemi skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:
 STOKO EMULSION (<http://www.stoko.com>)
 Akemi skin protection recommendation for skin cleaning after product handling:
 FRAPANTOL (<http://www.stoko.com>)
 Akemi skin protection agent recommendation for skin aftercare:
 STOKO VITAN (<http://www.stoko.com>)

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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>).



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

· 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.

· 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.

Value for the permeation: Level ≤ 6, 480 min

· For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR
Camatril (KCL, Art No. 730, 731, 732, 733)
Fluorocarbon rubber (Viton)
Vitoject (KCL, Art No. 890)

· As protection from splashes gloves made of the following materials are suitable:

Neoprene gloves
Nitopren (KCL, Art No. 717)

· Not suitable are gloves made of the following materials:

Leather gloves
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: Cream colored

· Odor: Mild

· pH-value: Not applicable

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· <u>Change in condition</u>	
<u>Melting point/Melting range:</u>	Undetermined.
<u>Boiling point/Boiling range:</u>	180 °C (356 °F)
· <u>Flash point:</u>	47 °C (117 °F)
· <u>Ignition temperature:</u>	240 °C (464 °F)
· <u>Auto igniting:</u>	Product is not selfigniting.
· <u>Danger of explosion:</u>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <u>Explosion limits:</u>	
<u>Lower:</u>	0.6 Vol %
<u>Upper:</u>	7.0 Vol %
· <u>Vapor pressure at 20 °C (68 °F):</u>	1 hPa (1 mm Hg)
· <u>Density at 20 °C (68 °F):</u>	0.79 g/cm ³ (6.593 lbs/gal)
· <u>Specific gravity at 20 °C (68 °F):</u>	0.79 g/cm ³ (6.593 lbs/gal)
· <u>Solubility in / Miscibility with</u>	
<u>Water:</u>	Not miscible or difficult to mix.
· <u>Viscosity:</u>	
<u>Dynamic at 20 °C (68 °F):</u>	250 mPas
· <u>Solvent content:</u>	
<u>Organic solvents:</u>	84.7 %
<u>Water:</u>	1.5 %
<u>Solids content:</u>	10.3 %
· <u>Other information</u>	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 strong 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

11 Toxicological information

- **Information on toxicological effects**
- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.

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· Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

7631-86-9	silicon dioxide, chemically prepared	3
67-63-0	propan-2-ol	3

· NTP (National Toxicology Program)

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.

· **Behavior in environmental systems:**

· Bioaccumulative potential No further relevant information available.

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

14 Transport information

· **UN-Number**

· DOT, ADR, IMDG, IATA UN3295

· **UN proper shipping name**

· DOT Hydrocarbons, liquid, n.o.s. (Diesel fuel, Diesel fuel)
· ADR 3295 Hydrocarbons, liquid, n.o.s. (Diesel fuel, Diesel fuel), ENVIRONMENTALLY HAZARDOUS
· IMDG HYDROCARBONS, LIQUID, N.O.S. (DIESEL FUEL, DIESEL FUEL), MARINE POLLUTANT
· IATA HYDROCARBONS, LIQUID, N.O.S. (DIESEL FUEL, DIESEL FUEL)

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· **Transport hazard class(es)**

· DOT



- Class 3 Flammable liquids.
· Label 3

· ADR



- Class 3 (F1) Flammable liquids
· Label 3

· IMDG



- Class 3 Flammable liquids.
· Label 3

· IATA



- Class 3 Flammable liquids.
· Label 3

· **Packing group**

- DOT, ADR, IMDG, IATA III

· **Environmental hazards:**

- Marine pollutant: Symbol (fish and tree)
· Special marking (ADR): Symbol (fish and tree)

· **Special precautions for user**

- Warning: Flammable liquids
· Danger code (Kemler): 30
· EMS Number: F-E,S-D

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

Not applicable.

· **UN "Model Regulation":**

UN3295, Hydrocarbons, liquid, n.o.s. (Diesel fuel, Diesel fuel), ENVIRONMENTALLY HAZARDOUS, 3, III

* **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.

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· Section 313 (Specific toxic chemical listings):	
1344-28-1	aluminium oxide
67-63-0	propan-2-ol

· TSCA (Toxic Substances Control Act):	
8001-79-4	Castor oil
1344-28-1	aluminium oxide
7631-86-9	silicon dioxide, chemically prepared
1318-74-7	Lamellarer Kaolinit
64741-65-7	Naphtha (petroleum), heavy alkylate
69430-37-1	Polydimethylsiloxan, hydroxy-terminiert, Reaktionsprodukt mit Trimethoxymethylsilan und N-[3-(Trimethoxysilyl)propyl]-1,2-ethandiamin
67-63-0	propan-2-ol
7732-18-5	water, distilled, conductivity or of similarpurity

· 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)		
1344-28-1	aluminium oxide	A4
67-63-0	propan-2-ol	A4

· MAK (German Maximum Workplace Concentration)		
1344-28-1	aluminium oxide	2

· 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.

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

· Hazard pictograms



GHS02

· Signal word Warning

· Hazard statements H226 Flammable liquid and vapour.

· 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.

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P280 Wear protective gloves.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- National regulations:
- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- VOC USA 665.0 g/l / 5.55 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 MSDS:** Laboratory
- **Contact:** Dieter Zimmermann
- **Date of preparation / last revision** 01/21/2014 / -
- **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)
 - ICAO: International Civil Aviation Organization
 - 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)

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