

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.02.2014

Revision: 18.02.2014

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

· Product identifier

- Trade name: **Super Gloss**
- Article number: 10976
- Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- Application of the substance / the mixture Sealing

· 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
- 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 Hazards identification

· Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Carc. 2 H351 Suspected of causing cancer.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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



Xn; Harmful

R40: Limited evidence of a carcinogenic effect.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- 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.

- Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· Label elements

- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS08 GHS09

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- | | |
|---|--|
| <ul style="list-style-type: none"> · <u>Signal word</u> · <u>Hazard-determining components of labelling:</u> · <u>Hazard statements</u> · <u>Precautionary statements</u> · Other hazards · <u>Results of PBT and vPvB assessment</u> · <u>PBT:</u> · <u>vPvB:</u> | <p>Warning</p> <p>tetrachloroethylene</p> <p>H351 Suspected of causing cancer.
H411 Toxic to aquatic life with long lasting effects.</p> <p>P101 If medical advice is needed, have product container or label at hand.</p> <p>P102 Keep out of reach of children.</p> <p>P103 Read label before use.</p> <p>P273 Avoid release to the environment.</p> <p>P281 Use personal protective equipment as required.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/attention.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</p> <p>Not applicable.</p> <p>Not applicable.</p> |
|---|--|

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 127-18-4	tetrachloroethylene	50-100%
EINECS: 204-825-9	 Xn R40;  N R51/53	
Index number: 602-028-00-4	Carc. Cat. 3	
 Carc. 2, H351;  Aquatic Chronic 2, H411		

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

4 First aid measures· **Description of first aid measures**

- | | |
|--|---|
| <ul style="list-style-type: none"> · <u>After inhalation:</u> · <u>After skin contact:</u> · <u>After eye contact:</u> · <u>After swallowing:</u> · <u>Information for doctor:</u> · <u>Most important symptoms and effects, both acute and delayed</u> · <u>Indication of any immediate medical attention and special treatment needed</u> | <p>Supply fresh air; consult doctor in case of complaints.</p> <p>Immediately rinse with water.</p> <p>If skin irritation continues, consult a doctor.</p> <p>Rinse opened eye for several minutes under running water.</p> <p>Call for a doctor immediately.</p> <p>Do not induce vomiting; call for medical help immediately.</p> <p>No further relevant information available.</p> <p>No further relevant information available.</p> |
|--|---|

5 Firefighting measures· **Extinguishing media**

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

· **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

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- **Advice for firefighters**
- Protective equipment: Do not inhale explosion gases or combustion gases.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 - 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.
- **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.
Prevent formation of aerosols.
- Information about fire - and explosion protection: No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Protect from frost.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

- Ingredients with limit values that require monitoring at the workplace:

127-18-4 tetrachloroethylene

WEL	Short-term value: 689 mg/m ³ , 100 ppm Long-term value: 345 mg/m ³ , 50 ppm
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- Additional information: The lists valid during the making were used as basis.

· **Exposure controls**

- Personal protective equipment:
- General protective and hygienic measures:
 - Keep away from foodstuffs, beverages and feed.
 - Wash hands before breaks and at the end of work.
 - Do not inhale gases / fumes / aerosols.

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- Respiratory protection: Short term filter device:
Filter A/P2
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.
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:
SLIG SPEZIAL (<http://www.stoko.com>)
Akemi 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 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.
 - Eye protection: Goggles recommended during refilling

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

Form: Fluid

Colour: Colourless

· Odour: Specific type· Odour threshold: Not determined.· pH-value: Not determined.· Change in conditionMelting point/Melting range: Undetermined.

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<u>Boiling point/Boiling range:</u>	121 °C
· <u>Flash point:</u>	> 70 °C
· <u>Flammability (solid, gaseous):</u>	Not applicable.
· <u>Ignition temperature:</u>	
<u>Decomposition temperature:</u>	Not determined.
· <u>Self-igniting:</u>	Product is not selfigniting.
· <u>Danger of explosion:</u>	Product does not present an explosion hazard.
· <u>Explosion limits:</u>	
<u>Lower:</u>	Not determined.
<u>Upper:</u>	Not determined.
· <u>Vapour pressure at 20 °C:</u>	19 hPa
· <u>Density at 20 °C:</u>	1.46 g/cm ³
· <u>Relative density</u>	Not determined.
· <u>Vapour density</u>	Not determined.
· <u>Evaporation rate</u>	Not determined.
· <u>Solubility in / Miscibility with water:</u>	Not miscible or difficult to mix.
· <u>Partition coefficient (n-octanol/water):</u>	Not determined.
· <u>Viscosity:</u>	
<u>Dynamic:</u>	Not determined.
<u>Kinematic:</u>	Not determined.
· <u>Solvent content:</u>	
<u>Organic solvents:</u>	80.0 %
· <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**

No dangerous reactions known.

· **Conditions to avoid**

No further relevant information available.

· **Incompatible materials:**

No further relevant information available.

· **Hazardous decomposition products:**Hydrogen chloride (HCl)
Chlorine
Phosgen**11 Toxicological information**· **Information on toxicological effects**· Acute toxicity:· LD/LC50 values relevant for classification:**127-18-4 tetrachloroethylene**Inhalative LC50/4h 4000 mg/m³ (rat)· Primary irritant effect:· on the skin:

No irritant effect.

· on the eye:

No irritating effect.

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- Sensitization: No sensitizing effects known.
- Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Carc. 2

12 Ecological information**· Toxicity****· Aquatic toxicity:****127-18-4 tetrachloroethylene**

EC50/48h | 18 mg/l (daphnia magna)

- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- **Ecotoxicological effects:**
- Remark: Toxic for fish
- **Additional ecological information:**
- General notes: Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
- **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 together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:**· Recommendation:**

Disposal must be made according to official regulations.

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

UN1897

· UN proper shipping name**· ADR**

1897 TETRACHLOROETHYLENE, solution, ENVIRONMENTALLY HAZARDOUS

· IMDG

TETRACHLOROETHYLENE, solution, MARINE POLLUTANT

· IATA

TETRACHLOROETHYLENE, solution

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· Transport hazard class(es)**· ADR**

· Class 6.1 (T1) Toxic substances.
 · Label 6.1

· IMDG

· Class 6.1 Toxic substances.
 · Label 6.1

· IATA

· Class 6.1 Toxic substances.
 · Label 6.1

· Packing group

· ADR, IMDG, IATA III

· Environmental hazards:

· Marine pollutant: Product contains environmentally hazardous substances:
 Yes
 Symbol (fish and tree)
 · Special marking (ADR): Symbol (fish and tree)

· Special precautions for user

Warning: Toxic substances.
 · Danger code (Kemler): 60
 · EMS Number: F-A,S-A
 · Segregation groups Liquid halogenated hydrocarbons

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

Not applicable.

· Transport/Additional information:

· ADR
 · Limited quantities (LQ) 5L
 · Transport category 2
 · Tunnel restriction code E

· UN "Model Regulation":

UN1897, TETRACHLOROETHYLENE, solution, ENVIRONMENTALLY HAZARDOUS, 6.1, III

15 Regulatory information**· Safety, health and environmental regulations/legislation specific for the substance or mixture**

· VOC EU 1168.0 g/l
 · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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.

· Relevant phrases

H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

R40 Limited evidence of a carcinogenic effect.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Department issuing MSDS:

Laboratory

· Contact:

Dieter Zimmermann

Elke Hake

Fon ++49 (0)911 64296-59

@mail E.Hake@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)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent