

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.11.2020

Version number 7

Revision: 18.11.2020

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

### 1.1 Product identifier

- Trade name: **Solid Wax**
- Article number: 11900 / 11905
- UFI: M4E2-10QE-A00C-NCCK

### 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

Maintenance product

### 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



GHS08 health hazard

Carc. 2                      H351 Suspected of causing cancer.



GHS09 environment

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



GHS07

Skin Irrit. 2                      H315 Causes skin irritation.  
Eye Irrit. 2                      H319 Causes serious eye irritation.  
Skin Sens. 1                      H317 May cause an allergic skin reaction.  
STOT SE 3                      H336 May cause drowsiness or dizziness.

### 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.



GHS07    GHS08    GHS09

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|   |   |
|---|---|
| <ul style="list-style-type: none"> <li>· <u>Signal word</u></li> <li>· <u>Hazard-determining components of labelling:</u></li> <li>· <u>Hazard statements</u></li> <li>· <u>Precautionary statements</u></li> <li>· <b>2.3 Other hazards</b></li> <li>· <u>Results of PBT and vPvB assessment</u></li> <li>· <u>PBT:</u></li> <li>· <u>vPvB:</u></li> </ul> | <p>Warning</p> <p>tetrachloroethylene</p> <p>H315 Causes skin irritation.<br/>H319 Causes serious eye irritation.<br/>H317 May cause an allergic skin reaction.<br/>H351 Suspected of causing cancer.<br/>H336 May cause drowsiness or dizziness.<br/>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 carefully and follow all instructions.</p> <p>P261 Avoid breathing vapours.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P312 Call a POISON CENTER/doctor if you feel unwell.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</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> |
|---|---|

**SECTION 3: Composition/information on ingredients****3.2 Chemical characterisation: Mixtures**

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

· Dangerous components:

|   |   |          |
|---|---|----------|
| CAS: 127-18-4<br>EINECS: 204-825-9<br>Index number: 602-028-00-4<br>Reg.nr.: 01-2119475329-28 | tetrachloroethylene<br> Carc. 2, H351<br> Aquatic Chronic 2, H411<br> Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H336 | 50-100%  |
| CAS: 8002-74-2<br>EINECS: 232-315-6   | paraffin wax<br>substance with a Community workplace exposure limit   | 12.5-25% |

· 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: 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. If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Call a doctor immediately.

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

Induce vomiting only, if affected person is fully conscious.

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

No further relevant information available.

No further relevant information available.

\* **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**

No further relevant information available.

· **5.3 Advice for firefighters**

· Protective equipment:

Do not inhale explosion gases or combustion gases.

· Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

\* **SECTION 6: Accidental release measures**

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.  
Mount respiratory protective device.

· **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:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
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**

Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection:

Protect from heat.

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

· Storage:

· Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.  
Store in a cool location.

· Information about storage in one common storage facility:

Store away from foodstuffs.

· Further information about storage conditions:

Store receptacle in a well ventilated area.

Store in cool, dry conditions in well sealed receptacles.

· Storage class:

6.1 C

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

## SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

### 8.1 Control parameters

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

#### 127-18-4 tetrachloroethylene

|     |  |
|-----|--|
| WEL | Short-term value: 275 mg/m <sup>3</sup> , 40 ppm |
|     | Long-term value: 138 mg/m <sup>3</sup> , 20 ppm  |
|     | Sk   |

#### 8002-74-2 paraffin wax

|     |                                       |
|-----|---------------------------------------|
| WEL | Short-term value: 6 mg/m <sup>3</sup> |
|     | Long-term value: 2 mg/m <sup>3</sup>  |

· DNELs

#### 127-18-4 tetrachloroethylene

|            |                             |                                  |
|------------|-----------------------------|----------------------------------|
| Oral       | DNEL (Langzeit-wiederholt)  | 1.3 mg/kg bw/day (BEV)           |
| Dermal     | DNEL ( Langzeit-wiederholt) | 39.4 mg/kg bw/day (ARB)          |
|            |                             | 23 mg/kg bw/day (BEV)            |
| Inhalative | DNEL (Kurzzeit-akut)        | 275 mg/m <sup>3</sup> Air (ARB)  |
|            | DNEL (Langzeit-wiederholt)  | 138 mg/m <sup>3</sup> Air (ARB)  |
|            |                             | 34.5 mg/m <sup>3</sup> Air (BEV) |

· PNECs

#### 127-18-4 tetrachloroethylene

|                |                               |
|----------------|-------------------------------|
| PNEC (wässrig) | 11.2 mg/l (KA)                |
|                | 0.0051 mg/l (MW)              |
|                | 0.051 mg/l (SW)               |
|                | 364 mg/l (WAS)                |
| PNEC (fest)    | 0.01 mg/kg Trockengew (BO)    |
|                | 0.0903 mg/kg Trockengew (MWS) |
|                | 0.903 mg/kg Trockengew (SWS)  |

· Additional information: The lists valid during the making were used as basis.

### 8.2 Exposure controls

· Personal protective equipment:  
 · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.  
 Do not inhale gases / fumes / aerosols.

· 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.  
 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:  
 Kresto Classic (<http://debstoko.com>)  
 Skin protection agent recommendation for skin aftercare:

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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>).

**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

Butyl rubber, BR  
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  $\leq$  480 min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:**Tightly sealed goggles****SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**General InformationAppearance:

|                  |                |
|------------------|----------------|
| · <u>Form:</u>   | Pasty          |
| · <u>Colour:</u> | Transparent    |
| · <u>Odour:</u>  | Characteristic |

Change in condition

|   |               |
|---|---------------|
| · <u>Melting point/freezing point:</u>            | Undetermined. |
| · <u>Initial boiling point and boiling range:</u> | 121 °C        |

|                       |        |
|-----------------------|--------|
| · <u>Flash point:</u> | >61 °C |
|-----------------------|--------|

|                                |         |
|--------------------------------|---------|
| · <u>Ignition temperature:</u> | >300 °C |
|--------------------------------|---------|

|                                     |                              |
|-------------------------------------|------------------------------|
| · <u>Auto-ignition temperature:</u> | Product is not selfigniting. |
|-------------------------------------|------------------------------|

|                                |   |
|--------------------------------|---|
| · <u>Explosive properties:</u> | Product does not present an explosion hazard. |
|--------------------------------|---|

|                                    |        |
|------------------------------------|--------|
| · <u>Vapour pressure at 20 °C:</u> | 22 hPa |
|------------------------------------|--------|

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|   |  |
|---|--|
| · Density at 20 °C:   | 1.4 g/cm <sup>3</sup>                                |
| · Solubility in / Miscibility with water:                                   | Not miscible or difficult to mix.                    |
| · Viscosity:<br>· Dynamic:<br>· Kinematic:                                  | Not determined.<br>Not determined.                   |
| · Solvent content:<br>· Organic solvents:<br>· <b>9.2 Other information</b> | 82.5 %<br>No further relevant information available. |

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with strong acids and oxidising agents.  
Reacts with earth alkaline metals.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** strong oxidizing agents  
bases  
Acids
- **10.6 Hazardous decomposition products:** Hydrogen chloride (HCl)  
Phosgen  
Chlorine  
Chlorine compounds

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

**ATE (Acute Toxicity Estimates)**

|        |      |                       |
|--------|------|-----------------------|
| Dermal | LD50 | >1,212 mg/kg (rabbit) |
|--------|------|-----------------------|

**127-18-4 tetrachloroethylene**

|            |         |                               |
|------------|---------|-------------------------------|
| Oral       | LD50    | 3,005 mg/kg (rat)             |
| Dermal     | LD50    | >1,000 mg/kg (rabbit)         |
| Inhalative | LC50/4h | 4,000 mg/m <sup>3</sup> (rat) |

- Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Suspected of causing cancer.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure May cause drowsiness or dizziness.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

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**SECTION 12: Ecological information****· 12.1 Toxicity**· Aquatic toxicity:**127-18-4 tetrachloroethylene**

|           |   |
|-----------|---|
| EC50/48h  | 8.5 mg/l (daphnia magna)                    |
| NOELR/21d | 510 mg/l (daphnia magna)                    |
| EC50/72h  | 3.64 mg/l (Pseudokirchneriella subcapitata) |
| LC50/96h  | 5 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.

· Ecotoxicological effects:· Remark:

Toxic for fish

· Additional ecological information:· General notes:

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even small quantities leak into the ground.

**· 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:

Disposal must be made according to official regulations.

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

UN1897

**· 14.2 UN proper shipping name**· ADR1897 TETRACHLOROETHYLENE solution,  
ENVIRONMENTALLY HAZARDOUS· IMDGTETRACHLOROETHYLENE solution, MARINE  
POLLUTANT· IATA

TETRACHLOROETHYLENE solution

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**· 14.3 Transport hazard class(es)**· ADR

· Class  
· Label

6.1 (T1) Toxic substances.  
6.1

· IMDG

· Class  
· Label

6.1 Toxic substances.  
6.1

· IATA

· Class  
· Label

6.1 Toxic substances.  
6.1

**· 14.4 Packing group**· ADR, IMDG, IATA

III

**· 14.5 Environmental hazards:**· Marine pollutant:

Product contains environmentally hazardous substances:  
Yes

· Special marking (ADR):

Symbol (fish and tree)  
Symbol (fish and tree)

**· 14.6 Special precautions for user**· Hazard identification number (Kemler code):

Warning: Toxic substances.

· EMS Number:

60

· Segregation groups

F-A,S-A

· Stowage Category

Liquid halogenated hydrocarbons

· Stowage Code

A

SW2 Clear of living quarters.

**· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· Transport/Additional information:· ADR· 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

· Transport category

2

· Tunnel restriction code

E

· 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

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|                               |   |
|-------------------------------|---|
| <u>UN "Model Regulation":</u> | UN 1897 TETRACHLOROETHYLENE SOLUTION, 6.1, III, ENVIRONMENTALLY HAZARDOUS |
|-------------------------------|---|

**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 E2 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

|   |
|---|
| · <u>DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II</u> |
|---|

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

- National regulations:
- Information about limitation of use: Employment restrictions concerning juveniles must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed.
- Waterhazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.
- VOC EU 1,155.0 g/l
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 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 H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.  
H411 Toxic to aquatic life with long lasting effects.
- Department issuing SDS: Laboratory
- Contact: Dieter Zimmermann
- 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 Harmonised 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)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity - dermal – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
Carc. 2: Carcinogenicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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