

Reviewed on 01/22/2014

AKEMI[®]

1 Identification		
Product identifier Trade name:	Solid Wax	
Article number: Article number: Relevant identified uses of the	<u>Solid Wax</u> 11900 / 11905	
substance or mixture and uses advised against · Application of the substance / the	No further relevant information available.	
mixture	Maintenance product	
Details of the supplier of the saft Manufacturer/Supplier:	iety data sheet 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: Emergency telephone number: 	Laboratory Product Safety Department AKEMI chemisch technis 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.	che Spezialfabrik GmbH
2 Hazard(s) identification		
Classification of the substance	or mixture	
GHS08 Health hazard		
Carc. 2 H351 Suspected of caus	ing cancer.	
H227 Combustible liquid.		
Classification according to Directive	e 67/548/EEC or Directive 1999/45/EC	
Harmful Limited evidence of a carcinogenio	c effect.	
Dangerous for the environme	ent	
	ause long-term adverse effects in the aquatic environm	nent.
• Classification system:	The product has to be labelled due to the calculation Classification guideline for preparations of the EU" in The classification was made according to the late substances lists, and expanded upon from company	the latest valid version. est editions of international
· Label elements		
 Labelling according to EU guidelines: 	The product has been classified and marked in acc hazardous materials.	cordance with directives on
Code letter and hazard designation of product:	Xn Harmful N Dangerous for the environment	nt
 Hazard-determining components of labeling: 	tetrachloroethylene	
· Risk phrases:	Limited evidence of a carcinogenic effect. Toxic to aquatic organisms, may cause long-term ac	dverse effects in the aquatic
	environment	(Contd. on page 2)
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Trade name: Solid wax		
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 Safety phrases: 	Keep out of the reach of children.	
	Do not breathe vapour.	
	Avoid contact with skin and eyes.	
	In case of contact with eyes, rinse immediately with plenty of water ar	nd seek
	medical advice.	
	After contact with skin, take off immediately all contaminated clothing, an	nd wash
	immediately with plenty of water and soap. Do not empty into drains, dispose of this material and its container at haz	zardouc
	or special waste collection point	Laiuous
	Wear suitable protective clothing, gloves and eye/face protection.	
	In case of insufficient ventilation, wear suitable respiratory equipment.	
	If swallowed, seek medical advice immediately and show this container of	
	Avoid release to the environment. Refer to special instructions/Safe	ty data
	sheets	
 Classification system: NFPA ratings (scale 0 - 4) 	Health = 2	
· INFFA failings (scale 0 - 4)	$\frac{1}{2}$ Fire = 2	
	2 0 Reactivity = 0	
HMIS ratings (apple 0 4)		
 HMIS-ratings (scale 0 - 4) 		
	REACTIVITY REACTIVITY = 0	
• Other hazards • Results of PBT and vPvB assess	smont	
· PBT:	Not applicable.	
· vPvB:	Not applicable.	
3 Composition/information on ir	ngredients	
· Chemical characterization: Mi	xtures	
Description:	Mixture of the substances listed below with nonhazardous additions.	
· Dangerous components:		
		-100%
EINECS: 204-825-9	Carc. Cat. 3	
Index number: 602-028-00-4	& Carc. 2, H351	
 Additional information: 	For the wording of the listed risk phrases refer to section 16.	
4 First-aid measures		
 Description of first aid measure 	res	
General information:	Immediately remove any clothing soiled by the product.	
After inhalation:	Supply fresh air; consult doctor in case of complaints.	
<u>After skin contact:</u>	Immediately wash with water and soap and rinse thoroughly.	
<u>After eye contact:</u>	Rinse opened eye for several minutes under running water. Then co	onsult a
After swallowing:	doctor. If symptoms persist consult doctor.	
Information for doctor:	וו פורוידיטוווים אפופופו נטוופעוג עטכוטו.	
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.	
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5 Fire-fighting measures	
Extinguishing modia	
	CO2, extinguishing powder or water spray. Fight larger fires with water spray
	alcohol resistant foam.
Special hazards arising from the substance or mixture	No further relevant information available.
Advice for firefighters	
	No special measures required.
6 Accidental release measures	
· Personal precautions, protective	
equipment and emergency	
	Not required.
	Do not allow product to reach sewage system or any water course.
	Inform respective authorities in case of seepage into water course or sewar 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, univers
	binders, sawdust).
	Dispose contaminated material as waste according to item 13.
	Ensure adequate ventilation. 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:	
	Ensure good ventilation/exhaustion at the workplace.
 Information about protection 	
	No special measures required.
Conditions for safe storage, inclusion Storage:	iding any incompatibilities
Requirements to be met by	
	No special requirements.
Information about storage in one	
	Not required.
<u>Further information about storage</u> conditions:	None.
	No further relevant information available.
8 Exposure controls/personal prote	ection
 Additional information about 	No. Contractor and a finance of the second
	No further data; see item 7.
· Control parameters	
Control parameters Components with limit values that re	equire monitoring at the workplace:
<u>Control parameters</u> <u>Components with limit values that re</u> 127-18-4 tetrachloroethylene	equire monitoring at the workplace:
Control parameters Components with limit values that re 127-18-4 tetrachloroethylene PEL Long-term value: 100 ppm	
Control parameters Components with limit values that re 127-18-4 tetrachloroethylene	

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rade na	ame: Solid Wax		
			(Contd. of page 3)
REL	Minimize workplace exp. co	ncs.;Pocket Guide App. A	
TLV	Short-term value: 685 mg/m ³ , 100 ppm Long-term value: 170 mg/m ³ , 25 ppm BEI		
 Ingre 	dients with biological limit va	lues:	
127-′	18-4 tetrachloroethylene		
	3 ppm Medium: end-exhaled air Time: prior to shift Parameter: Tetrachloroethyle	ene	
	0.5 mg/L Medium: blood Time: prior to shift Parameter: Tetrachloroethyle	ene	
 Addit 	tional information:	The lists that were valid during the creation were used as basis.	
· Perso	osure controls onal protective equipment: eral protective and hygienic		
	sures: thing equipment:	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. Short term filter device: Filter A/P2 In case of brief exposure or low pollution use respiratory filter de intensive or longer exposure use respiratory protective of	
• <u>Prote</u>	ection of hands:	independent of circulating air. Preventive skin protection by use of skin-protecting agents is reco After use of gloves apply skin-cleaning agents and skin cosmetics Akemi skin protection agent recommendation for preventive application and combination of protective gloves: STOKO EMULSION (http://www.stoko.com)	ommended.
		Akemi skin protection recommendation for skin cleaning after pro- SLIG SPEZIAL (http://www.stoko.com) Akemi skin protection agent recommendation for skin aftercare:	duct handling:
		STOKO VITAN (http://www.stoko.com) The protection gloves to be used have to comply with the speci directive 89/686/EC and the directive derived decree EN374, re the above listed protection glove type. The mentioned permeat were generated and verified with material samples of the protection glove type in the scope of laboratory anylyses of the GmbH in compliance with EN374.	spectively, e.g ion times´ data recommende
		This recommendation refers exclusively to the material safe referenced product delivered by Akemi and the indicated field of case of product dilution or in case of mixture with different chemicals, and in condition of EN374 deviation the producer of protection gloves must be contacted for detailed information (e.g. Germany, 36124 Eichenzell, internet: http://www.kcl.de).	f application. I substances c f CE-approve
		Protective gloves	
		The glove material has to be impermeable and reproduct/ the substance/ the preparation.	esistant to the

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	(Contd. of page 4) 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	times, rates of diffusion and the degradation 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 ch	hemical properties
General Information	
· <u>Appearance:</u> Form: Pas	ot v
	ansparent
<u>Color.</u> That Whi	
	paracteristic
Change in condition	
	ndetermined.
	1 °C (250 °F)
• Flash point: > 6	61 °C (> 142 °F)
<u>Auto igniting:</u> Pro	oduct is not selfigniting.
Danger of explosion: Pro	oduct does not present an explosion hazard.
· <u>Vapor pressure at 20 °C (68 °F):</u> 19 ł	hPa (14 mm Hg)
• <u>Density at 20 °C (68 °F):</u> 1.4	4 g/cm³ (11.683 lbs/gal)
Specific gravity at 20 °C (68 °F): 1.4	4 g/cm³ (11.683 lbs/gal)
Solubility in / Miscibility with	
	ot miscible or difficult to mix.
· Viscosity:	
	ot determined.
	ot determined.
Solvent content:	
	.0 %
Other information No	o further relevant information available.

10 Stability and reactivity

· Reactivity

- Chemical stability
- Thermal decomposition /
- conditions to be avoided: • Possibility of hazardous
- reactions · Conditions to avoid

· Incompatible materials:

- No dangerous reactions known. No further relevant information available.
- No further relevant information available.

No decomposition if used according to specifications.

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 Hazardous decomposition products: 	No dangerous decomposition products known.
11 Toxicological information	
 Information on toxicological eff Acute toxicity: 	fects
LD/LC50 values that are relevant	for classification:
127-18-4 tetrachloroethylene	
Inhalative LC50/4h 4000 mg/m3	(rat)
Primary irritant effect:	
• <u>on the skin:</u>	No irritant effect.
 <u>on the eye:</u> Sensitization: 	No irritating effect. No sensitizing effects known.
Additional toxicological	
information:	The product shows the following dangers according to internally approved calculation methods for preparations:
<u>Carcinogenic categories</u>	
IARC (International Agency for Revealed to the second	esearch on Cancer)
127-18-4 tetrachloroethylene	2A
• NTP (National Toxicology Progra	m)
127-18-4 tetrachloroethylene	R
12 Ecological information <u>Toxicity</u> <u>Aquatic toxicity:</u> 	
127-18-4 tetrachloroethylene	
EC50/48h 18 mg/l (daphnia mag	·
Persistence and degradability	No further relevant information available.
Behavior in environmental syst Bioaccumulative potential	ems: No further relevant information available.
Mobility in soil	No further relevant information available.
· Ecotoxical effects:	
• <u>Remark:</u>	Toxic for fish
 Additional ecological information General notes: 	on: Water hazard class 3 (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. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms
 Results of PBT and vPvB asses 	
• <u>PBT:</u>	Not applicable.
$\cdot \underline{vPvB}$	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. (Contd. on page 7)
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Uncleaned packagings: Recommendation:	Disposal must be made according to official regulations.
1 Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	UN1897
• UN proper shipping name • DOT • ADR • IMDG	Tetrachloroethylene, solution 1897 Tetrachloroethylene, solution, ENVIRONMENTALL HAZARDOUS TETRACHLOROETHYLENE, solution, MARINE POLLUTANT
·IATA	TETRACHLOROETHYLENE, solution
• <u>Transport hazard class(es)</u> • <u>DOT</u>	
· <u>Class</u> · <u>Label</u>	6.1 Toxic substances. 6.1
ADR	
· <u>Class</u> · <u>Label</u>	6.1 (T1) Toxic substances 6.1
· IMDG	
· <u>Class</u> · <u>Label</u> · IATA	6.1 Toxic substances. 6.1
· <u>Class</u> · <u>Label</u>	6.1 Toxic substances. 6.1
· Packing group · DOT, ADR, IMDG, IATA	III
Environmental hazards: Marine pollutant: Special marking (ADB):	Product contains environmentally hazardous substances: Yes Symbol (fish and tree)
Special marking (ADR): Special precautions for user	Symbol (fish and tree) Warning: Toxic substances

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· Danger code (Kemler):	60
EMS Number:	F-A,S-A
 Segregation groups 	Liquid halogenated hydrocarbons
Transport in bulk according to MARPOL73/78 and the IBC Cod	
· Transport/Additional information	on:
· DOT	
• Remarks:	Special marking with the symbol (fish and tree).
· UN "Model Regulation":	UN1897, Tetrachloroethylene, solution, ENVIRONMENTALL HAZARDOUS, 6.1, III
• <u>Sara</u> • Section 355 (extremely hazardou	tal regulations/legislation specific for the substance or mixture
None of the ingredient is listed.	
Section 313 (Specific toxic chem	ical listings):
All ingredients are listed.	
 TSCA (Toxic Substances Contro 	I Act):
All ingredients are listed.	
Proposition 65	
Chemicals known to cause cance	er:
All ingredients are listed.	
 Chemicals known to cause repro 	ductive toxicity for females:
None of the ingredients is listed.	
<u>Chemicals known to cause repro</u>	ductive toxicity for males:
None of the ingredients is listed.	
· Chemicals known to cause devel	lopmental toxicity:
None of the ingredients is listed.	
· Cancerogenity categories	
· EPA (Environmental Protection A	Agency)
127-18-4 tetrachloroethylene	
	blished by ACGIH)
•	<u>·</u>
TLV (Threshold Limit Value estat 127-18-4 tetrachloroethylene	A
TLV (Threshold Limit Value estat 127-18-4 tetrachloroethylene	ace Concentration)
TLV (Threshold Limit Value estat 127-18-4 tetrachloroethylene MAK (German Maximum Workpl 127-18-4 tetrachloroethylene	Ace Concentration)
TLV (Threshold Limit Value estat 127-18-4 tetrachloroethylene MAK (German Maximum Workpl 127-18-4 tetrachloroethylene	Ace Concentration)
 TLV (Threshold Limit Value estated 127-18-4) tetrachloroethylene MAK (German Maximum Workplane) 127-18-4) tetrachloroethylene NIOSH-Ca (National Institute for All ingredients are listed. 	Ace Concentration) Occupational Safety and Health)
TLV (Threshold Limit Value estable 127-18-4 tetrachloroethylene MAK (German Maximum Workple 127-18-4 tetrachloroethylene NIOSH-Ca (National Institute for All ingredients are listed. OSHA-Ca (Occupational Safety a	Ace Concentration) 3 Occupational Safety and Health)
 TLV (Threshold Limit Value estable) TLV (Threshold Limit Value estable) 127-18-4 tetrachloroethylene MAK (German Maximum Workplane) 127-18-4 tetrachloroethylene NIOSH-Ca (National Institute for All ingredients are listed. OSHA-Ca (Occupational Safety & None of the ingredients is listed. 	Ace Concentration) 3 Occupational Safety and Health)
TLV (Threshold Limit Value estable 127-18-4 tetrachloroethylene MAK (German Maximum Workplane I27-18-4 tetrachloroethylene NIOSH-Ca (National Institute for All ingredients are listed. OSHA-Ca (Occupational Safety a	Ace Concentration) 3 Occupational Safety and Health)

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Trade name: Solid Wax	
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· <u>Hazard symbols:</u>	Xn Harmful N Dangerous for the environment
 Hazard-determining components of labeling: 	tetrachloroethylene
· <u>Risk phrases:</u>	Limited evidence of a carcinogenic effect. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
 <u>Safety phrases:</u> 	 Keep out of the reach of children. Do not breathe vapour. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point Wear suitable protective clothing, gloves and eye/face protection. In case of insufficient ventilation, wear suitable respiratory equipment. If swallowed, seek medical advice immediately and show this container or label. Avoid release to the environment. Refer to special instructions/Safety data sheets
 National regulations: 	
• Water hazard class:	Water hazard class 3 (Self-assessment): extremely hazardous for water.
<u>VOC USA</u> · <u>Chemical safety assessment:</u>	0.0 g/l 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	01/22/2014 / -
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 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