

according to 1907/2006/EC, Article 31

Printing date 07.11.2017 Version number 2 Revision: 07.11.2017

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

- 1.1 Product identifier

**KEMPERDUR Finish silk** - Trade name:

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

Identified use: intended for professional use only!

- Application of the substance / the mixture - 1.3 Details of the supplier of the safety data sheet

KEMPER SYSTEM GmbH & Co. KG - Manufacturer/Supplier:

Holländische Strasse 32-36

34246 Vellmar

Deutschland / Germany Telefon: +49 (0)561 / 8295-0 Telefax: +49 (0)561 / 8295-5110 E-Mail: MSDS@KEMPER-SYSTEM.COM

research & development - Further information obtainable from:

- 1.4 Emergency telephone number: Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen

Langenbeckstraße 1; Gebäude 601; 55131 Mainz

Tel. Nr.: +49 (0)6131 / 19 24 0

Universitätsmedizin der Johannes Gutenberg-Universität Mainz

#### **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. Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

Causes damage to the central nervous system through prolonged or repeated exposure. STOT RE 1 H372

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

2.2 Label elements

Hazard pictograms

- Signal word

- Labelling according to Regulation (EC) No

1272/2008

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





GHS07





- Hazard-determining components of

labelling:

Isophorondiisocyanate homopolymer

Danger

Naphtha (petroleum), hydrodesulfurized heavy

hydrocarbons, C9, aromatic

1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

- Hazard statements H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

H372 Causes damage to the central nervous system through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

- Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

Do not breathe dust/fume/gas/mist/vapours/spray. P260

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- Additional information: EUH204 Contains isocyanates. May produce an allergic reaction.

- 2.3 Other hazards

- Results of PBT and vPvB assessment

- PRT: Not applicable. - vPvB: Not applicable.



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SECTION 3: Composition/information on ingredients				
- 3.2 Chemical characterisation: Mixtures - Description: Mixture: consisting of the following components.				
- Dangerous components:				
EC number: 931-312-3 Reg.nr.: 01-2119488734-24	Isophorondiisocyanate homopolymer Skin Sens. 1, H317; STOT SE 3, H335	25-50%		
EC number: 918-668-5 Reg.nr.: 01-2119455851-35	hydrocarbons, C9, aromatic Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	25-50%		
CAS: 64742-82-1 EINECS: 265-185-4 Index number: 649-330-00-2 Reg.nr.: 01-2119458049-33	Naphtha (petroleum), hydrodesulfurized heavy Flam. Liq. 3, H226; STOT RE 1, H372; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	12.5-25%		
CAS: 64742-95-6 EINECS: 265-199-0 Index number: 649-356-00-4 Reg.nr.: 01-2119455851-35	Solvent naphtha (petroleum), light arom. Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	2.5-10%		
CAS: 140921-24-0 ELINCS: 411-700-4 Index number: 616-079-00-5 Reg.nr.: 01-2119890830-32	1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate Skin Sens. 1, H317	2.5-10%		
EC number: 915-687-0 Reg.nr.: 01-2119491304-40	bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	<0.5%		
CAS: 4098-71-9 EINECS: 223-861-6 Index number: 615-008-00-5 Reg.nr.: 01-2119490408-31	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate Acute Tox. 1, H330; Resp. Sens. 1, H334; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	<0.5%		
- 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.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48

hours after the accident.

Do not leave affected persons unattended. Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

- After skin contact: Immediately wash with water and soap and rinse thoroughly. Seek medical treatment in case of complaints.

- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Protect unharmed eye.

- After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects,

both acute and delayed

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.

Use fire extinguishing methods suitable to surrounding conditions.

- For safety reasons unsuitable extinguishing

agents:

Water with full jet

5.2 Special hazards arising from the

substance or mixture

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

- 5.3 Advice for firefighters - Protective equipment:

Do not inhale explosion gases or combustion gases.

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

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#### **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation Keep away from ignition sources. Avoid contact with skin and eyes

- 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Prevent from spreading (e.g. by damming-in or oil barriers).

- 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.

Do not flush with water or aqueous cleansing agents - **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. Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- Information about fire - and explosion

protection:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

- 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:

Storage class:

Further information about storage

conditions:

Store away from foodstuffs.

Store in dry conditions.

Protect from frost.

Keep container tightly sealed.
Recommended storage temperature: 10-30 °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:

4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³

Sen; as -NCO

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

- 8.2 Exposure controls

- Personal protective equipment:

- General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- **Respiratory protection:** When used properly and under normal conditions, breathing protection is not required.

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

Respiratory protection - Gas filters and combination filters according to EN 141

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- Protection of hands:

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Protective gloves

Check protective gloves prior to each use for their proper condition. Only use chemical-protective gloves with CE-labelling of category III.

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

After use of gloves apply skin-cleaning agents and skin cosmetics.

- Material of gloves Recommended materials:

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.5 mm

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 determined penetration times according to EN 374 part III are not performed under practical

conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is

recommended.

- As protection from splashes gloves made of

the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.1 \text{ mm}$ 

Penetration time (min.): <10

- Eye protection:



Tightly sealed goggles

Protective goggles and facial protection - Classification according to EN 166

- **Body protection:** Protective work clothing Impervious protective clothing

### **SECTION 9: Physical and chemical properties**

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

Form: Fluid

Colour: According to product specification
Odour: Characteristic

Odour threshold: Not determined.pH-value: Not determined.

- Change in condition

Melting point/freezing point:

Initial boiling point and boiling range:

Undetermined.

Undetermined.

- Flash point: 41 °C

- Flammability (solid, gas): Not applicable.

- **Decomposition temperature:** Not determined.

- **Auto-ignition temperature:** Product is not selfigniting.

- **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Not determined.

- Explosion limits:

Evaporation rate

Lower:
Upper:
Not determined.
Not determined.

- Density at 20 °C:
- Relative density
- Vapour density
Not determined.
Not determined.
Not determined.

- Solubility in / Miscibility with

water: Not miscible or difficult to mix.

- Partition coefficient: n-octanol/water: Not determined.

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- Viscosity: Dynamic at 20 °C: 85 mPas Kinematic: Not determined.

- Solvent content:

VOC (EC) 54.00 %

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

- Thermal decomposition / conditions to be

avoided:

No decomposition if used according to specifications. - 10.3 Possibility of hazardous reactions No dangerous reactions known.

- 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

 Acute toxicity Based on available data, the classification criteria are not met.

	,	,				
- LD/LC50 values relevant for classification:						
Isophorondiisocyanate homopolymer						
Oral	LD50	>14,000 mg/kg (rat) (OECD 401)				
hydrocarbons, C9, aromatic						
Oral	LD50	>3,492 mg/kg (rat) (OECD 401)				
Dermal	LD50	>3,160 mg/kg (rabbit) (OECD 402)				
64742-95-6 Solvent naphtha (petroleum), light arom.						
Dermal	LD50	>3,160 mg/kg (rabbit) (OECD 402)				
140921-24-0 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate						
Oral	LD50	>5,000 mg/kg (rat)				
Dermal	LD50	>2,000 mg/kg (rat)				
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate						
Oral	LD50	>2,300 mg/kg (rat) (IUCLID)				
Inhalative	NOAEC	6.3 mg/l (daphnia) ((21 day))				
4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate						
Inhalative	Inhalative   LC50/4 h   0.05 mg/l (ATE)					

- Primary irritant effect:

- Skin corrosion/irritation Based on available data, the classification criteria are not met.

- Serious eye damage/irritation Based on available data, the classification criteria are not met.

- Respiratory or skin sensitisation May cause an allergic skin reaction.

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Based on available data, the classification criteria are not met. Germ cell mutagenicity - Carcinogenicity Based on available data, the classification criteria are not met. - Reproductive toxicity Based on available data, the classification criteria are not met. - STOT-single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

- STOT-repeated exposure Causes damage to the central nervous system through prolonged or repeated exposure.

Based on available data, the classification criteria are not met. Aspiration hazard

### **SECTION 12: Ecological information**

- 12.1 Toxicity

- 12.1 TOXICITY				
- Aquatic toxicity:				
Isophorondiisocyanate homopolymer				
LC50/96 h	>1.51 mg/l (Cyprinus Carpio) (Richtlinie 67/548/EWG, Anhang V, C.1.)			
EC50	>3.36 mg/l (Daphnia magna) (OECD 202)			
EC50	>10,000 mg/l (Belebtschlamm) (OECD 209)			
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hydrocarbons,				
LL 50	9.2 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96h; OECD 203)			
EL50	2.9 mg/l (Pseudokirchne	eriella subcapitata) (72h; OECD 201)		
	3.2 mg/l (Daphnia magn	a) (48h; OECD 202)		
EC50	>99 mg/l (Belebtschlam	m) (10 min.; OECD 209)		
64742-82-1 Nap	htha (petroleum), hydrod	esulfurized heavy		
ErC50	<u> </u>			
LC50	10-30 mg/l (Oncorhynch	10-30 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96h; OECD 203)		
EC50	10-22 mg/l (Daphnia ma	agna) (48h; OECD 202)		
64742-95-6 Solv	vent naphtha (petroleum),	light arom.		
LL 50	9.2 mg/l (fish) (96h; OE0	9.2 mg/l (fish) (96h; OECD 203)		
EC50	3.2 mg/l (Daphnia magn	3.2 mg/l (Daphnia magna) (48h; OECD 202)		
EC50	2.6 mg/l (Pseudokirchneriella subcapitata) (72h; OECD 201)			
140921-24-0 1,6	140921-24-0 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate			
LC50/96 h	316 mg/l (Danio rerio (Zebrabärbling)) (OECD 203)			
EC50	1.77 mg/l (Bakterien) (activated sludge; ISO 8192-1986 E)			
IC50	43 mg/l (DESMODESMUS SUBSPICATUS) (72h; OECD 201)			
EC50				
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate				
LC50/96 h (station	0.97 mg/l (LEPOMUS M	IACROCHIRUS) (OECD 203; IUCLID)		
EC50	0.22 mg/l (ALGAE) ((72	hr))		
EC50 20 mg/l (Daphnia magna) (OECD 202/1; IUCLID)		a) (OECD 202/1; IUCLID)		
	e and degradability	No further relevant information available.		
- 12.3 Bioaccumu		No further relevant information available.		
- 12.4 Mobility in		No further relevant information available.		
- Ecotoxical effec	ots:	Total for Cali		
<ul> <li>Remark:</li> <li>Additional ecological information:</li> </ul>		Toxic for fish		
- General notes:		Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. 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		
- 12.5 Results of - PBT:	PBT and vPvB assessme	ent Not applicable.		
FDI.		ινοι αργιισασίε.	!	

### **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.

Disposal according to official regulations

No further relevant information available.

- European waste catalogue

- 12.6 Other adverse effects

- vPvR

08 04 09\* | waste adhesives and sealants containing organic solvents or other hazardous substances

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

Uncleaned packaging:

- Recommendation: Disposal must be made according to official regulations.

Not applicable.

SECTION 14: 1ra	insport intormation
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- 14.1 UN-Number - ADR, IMDG, IATA UN1866

- 14.2 UN proper shipping name

- ADR
 - IMDG
 1866 RESIN SOLUTION, ENVIRONMENTALLY HAZARDOUS
 - IMDG
 RESIN SOLUTION (Solvent naphtha (petroleum), light arom., Naphtha

(petroleum), hydrodesulfurized heavy), MARINE POLLUTANT

- IATA RESIN SOLUTION

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(Contd. of page 6) - 14.3 Transport hazard class(es) - ADR Class 3 (F1) Flammable liquids. Label - IMDG - Class 3 Flammable liquids. - Label - IATA - Class 3 Flammable liquids. - Label - 14.4 Packing group - ADR, IMDG, IATA Ш - 14.5 Environmental hazards: Product contains environmentally hazardous substances: bis(1,2,2,6,6pentamethyl-4-piperidyl) sebacate - Marine pollutant: Symbol (fish and tree) - Special marking (ADR): Symbol (fish and tree) - 14.6 Special precautions for user Warning: Flammable liquids. - Danger code (Kemler): 30 - EMS Number: F-E,S-E Stowage Category - 14.7 Transport in bulk according to Annex II of Marpol and the IBC Not applicable. - Transport/Additional information: Limited quantities (LQ) - Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml - Transport category 3 - Tunnel restriction code D/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

UN 1866 RESIN SOLUTION, 3, 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

- UN "Model Regulation":

- Named dangerous substances - ANNEX I

None of the ingredients is listed.

- Seveso category E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

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- Qualifying quantity (tonnes) for the application of lower-tier requirements

Qualifying quantity (tonnes) for the

application of upper-tier requirements

- REGULATION (EC) No 1907/2006 ANNEX

- National regulations:

- Information about limitation of use:

- 15.2 Chemical safety assessment:

200 t

500 t

Conditions of restriction: 3, 20

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed. Employment restrictions concerning women of child-bearing age must be observed.

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

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H372 Causes damage to the central nervous system through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

- Department issuing SDS:

Contact:

- Abbreviations and acronyms:

research & development research & development

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) VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative VPVB: Very Persistent and very Bloaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 1: Acute toxicity – Category 1
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT BE 1: Specific target organ toxicity (capacited exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

- Sources Internet:

- www.echa.com www.baua.de

www.gestis.itrust.de (IFA: Institute für Occupational Safety and

Health of the German Social Accident Insurance)

- \* Data compared to the previous version altered.