



according 1907/2006/EG, Article 31
Date of last alteration: 20.11.2019
Version: 1.3 (INTL-GHS)

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

- 1.1 Product identifier
Tradename: Hinrisol
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
Use of substance / preparation: Industrial.
elastomer products
- 1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier: ERNST HINRICHS Dental GmbH
Street / mailbox: Borsigstr. 1
Country code. / postal code / city: D - 38644 Goslar
Phone: 0 53 21 / 5 06 24
Fax: 0 53 21 / 5 08 81
E-mail / Website: info@hinrichs-dental.de / www.hinrichs-dental.de
Further information obtainable from: ERNST HINRICHS Dental GmbH
- 1.4 Emergency telephone number
ERNST HINRICHS Dental GmbH: +49 (0) 53 21 / 5 06 24 - 25 (Mon-Fri. 8 a.m. – 4 p.m.)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Hazard class	Hazard category	Route of exposure
Flammable liquids	Category 2	
Serious eye damage / eye irritation	Category 2	
Chronic aquatic toxicity	Category 2	
Acute aquatic toxicity	Category 1	

2.2 Label elements
Pictograms:



Signal word: Danger

H-Code	Hazard Statements
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

P-Code	Precautionary Statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P280	Wear protective gloves/protective clothing/eye protection.
P273	Avoid release to the environment.
P243	Take action to prevent static discharges.
P312	Call a POISON CENTER/doctor if you feel unwell.
P403+P235	Store in a well-ventilated place. Keep cool.

Hazard ingredients (labelling):
Isopropanol

2.3 Other hazards: No data available.



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SECTION 3: Composition/information on ingredients

3.1	Substances	Not applicable
3.2	Mixtures	
3.2.1	Chemical characteristics:	Polydimethylsiloxane with functional groups + solvent
3.2.2	Hazardous ingredients	

EC-No.	CAS No.	Material	Content %
203-492-7	107-46-0	Hexamethyldisiloxane	>75
200-661-7	67-63-0	Isopropanol	>10 – <20
	27306-78-1	Poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propoxy]-	<2
202-481-4	96-14-0	3-Methylpentane	<0,5
203-523-4	107-83-5	2-Methylpentane	<0,5

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) in amounts above $\geq 0.1\%$.

SECTION 4: First aid measures

4.1	Description of first aid measures General information:	Remove contaminated clothes at once. Where there is a risk of unconsciousness place and transport on one side in a stable position.
	After contact with the eyes:	Rinse immediately with plenty of water for 10-15 minutes and seek medical advice.
	After contact with the skin:	Wash with plenty of water or soap and water; immediately remove all contaminated clothing. In cases of sickness seek medical advice (show label if possible).
	After inhalation:	Move to fresh air, keep the victim laying down and restful. If breathing has stopped, give artificial respiration. If unconscious place in stable sideways position. Seek medical advice and clearly identify substance.
	After swallowing:	If conscious, give several small portions of water to drink. Do not induce vomiting. Seek medical advice immediately and produce the label or packaging.
4.2	Most important symptoms and effects, both acute and delayed:	Any relevant information can be found in other parts of this section.
4.3	Indication of any immediate medical attention and special treatment needed:	Further toxicology information in section 11 must be observed.

SECTION 5: Firefighting measures

5.1	Extinguishing media Suitable extinguishing agents:	Plenty of water, extinguishing powder, sand, alcohol-resistant foam, carbon dioxide.
	Extinguishing media which must not be used for safety reasons:	Water jet.
5.2	Special hazards arising from the substance or mixture:	None known.
5.3	Advice for firefighters Special protective equipment for firefighting:	Use respiratory protection independent of recirculated air.



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SECTION 6: Accidental release measures

6.1	Personal precautions, protective equipment and emergency procedures:	Wear personal protection equipment (see section 8). Avoid inhaling mists and vapours. Avoid contact with eyes and skin.
6.2	Environmental precautions:	Prevent material from entering sewers or surface waters. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers.
6.3	Methods and material for containment and cleaning up:	Do not flush away with water. Take up mechanically and dispose of according to local/state/federal regulations. Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Exhaust vapours.
	Further information:	Eliminate all sources of ignition.
6.4	Reference to other sections:	Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

SECTION 7: Handling and storage

7.1	Precautions for safe handling: Precautions against fire and explosion:	Ensure adequate ventilation. Must be syphoned off in situ. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water. Flammable vapours may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from open flames, heat and sparks.
7.2	Conditions for safe storage, including any incompatibilities Conditions for storage rooms and vessels: Advice for storage of incompatible materials: Further information for storage:	Protect against light. Not applicable. Keep container tightly closed and store in a cool, well ventilated place.
7.3	Specific end use(s):	No data available.

SECTION 8: Exposure controls/personal protection

8.1	Control parameters	-
8.2	Exposure controls:	
8.2.1	Exposure in the work place limited and controlled General protection and hygiene measures: Personal protection equipment:	Avoid contact with eyes and skin. Do not breathe vapours. Do not eat, drink or smoke when handling.



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Respiratory protection:

If inhalative exposure above the occupational exposure limit cannot be excluded, adequate respiratory protection equipment must be used. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136.

Recommended Filter type: Gas filter type ABEK (certain inorganic, organic and acidic gases and vapours; ammonia/amines), according to acknowledged standards such as EN 14387

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136.

Recommended Filter type: Combined filter type ABEK-P2 (certain inorganic, organic and acidic gases and vapours; ammonia/amines; particles), according to acknowledged standards such as EN 14387

For long or intense exposure, use respiratory protective equipment. Suitable respiratory equipment: Positive pressure self-contained breathing apparatus, according to acknowledged standards such as EN 137.

Observe the equipment manufacturer's information and wear time limits for respirators.

Eye protection:

Protective goggles.

Hand protection:

Gloves are required at all times when handling the material.

Recommended glove types: Protective gloves made of nitrile rubber

thickness of the material: > 0,4 mm

Breakthrough time: > 480 min

Recommended glove types: Protective gloves made of butyl rubber

thickness of the material: > 0,3 mm

Breakthrough time: > 480 min

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

Skin protection:

Protective clothing.

8.2.2 Exposure to the environment limited and controlled:

Prevent material from entering surface waters and soil. Do not introduce large amounts into purification plants.

8.3 Further information for system design and engineering measures:

Observe information in section 7. Observe regulations for protection against explosion.



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SECTION 9: Physical and chemical properties

9.1	Information on basic physical and chemical properties	Property:	Value:	Method
	Appearance:			
	Physical state:		liquid	
	Colour:		colourless	
	Odour:		faint	
	Odour limit:		no data available	
	pH:		Not applicable. Product displays neutral reaction with water.	
	Melting point/Freezing point		not determined	
	Boiling point/Boiling range:		100 °C at 1013 hPa	
	Flash point:		3 °C	(-)
	Evaporation rate:		no data available	
	Upper/lower flammability or explosive limits			
	Lower explosion limit (LEL):		approx. 2,0 Vol-%	
	Upper explosion limit (UEL):		approx. 12 Vol-%	
	Vapour pressure:		approx. 175 hPa / 50 °C	
	Vapour pressure:		approx. 44 hPa / 20 °C	
	Solubility(ies)			
	Water solubility / miscibility:		virtually insoluble	
	Vapour density			
	Relative gas/vapour density:		No data known.	
	Relative Density:		0,77 (23 °C) (Water / 4 °C = 1,00)	
	Density:		0,77 g/cm ³ (23 °C)	
	Partition coefficient: n-octanol/water:		No data known.	
	Auto-ignition temperature			
	Ignition temperature:		325 °C	(-)
	Decomposition temperature			
	Thermal decomposition:		not applicable	
	Viscosity (dynamic):			
	Viscosity (kinematic):		0,7 mm ² /s at 25 °C	
	Molecular mass:		not applicable	
9.2	Other information:		No data available.	

SECTION 10: Stability and reactivity

10.1-10.3	Reactivity; Chemical stability; Possibility of hazardous reactions:	If stored and handled in accordance with standard industrial practices no hazardous reactions are known. Relevant information can possibly be found in other parts of this section.
10.4	Conditions to avoid:	None known.
10.5	Incompatible materials:	None known.
10.6	Hazardous decomposition products:	If stored and handled properly: none known.

SECTION 11: Toxicological information

11.1	Information on toxicological effects	
11.1.1	General information:	Data derived for the product as a whole are of higher priority than data for single ingredients.
11.1.2	Acute toxicity Assessment:	For this endpoint no toxicological test data is available for the whole product.
	Acute toxicity estimate (ATE):	ATE _{mix} (Oral): > 2000 mg/kg
	Data related to ingredients:	



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Hexamethyldisiloxane:

Route of exposure	Result/Effect	Species/Test system	Source
Oral	LD50: > 16 mL/kg	Rat	test report
dermal	LD50: > 2000 mg/kg Neither mortality nor clinical signs of toxicity were observed with the given dose.	Rabbit	test report OECD 402
by inhalation (vapour)	LC50: 106 mg/l = 16000 ppm; 4 h	Rat	test report OECD 403

Isopropanol:

Route of exposure	Result/Effect	Species/Test system	Source
Oral	LD50: > 5000 mg/kg	Rat	ECHA
dermal	LD50: > 5000 mg/kg	Rabbit	ECHA
by inhalation (vapour)	LC50: > 10000 ppm; 6 h	Rat	ECHA OECD 403

11.1.3 Skin corrosion/irritation

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data related to ingredients:

Hexamethyldisiloxane:

Result/Effect	Species/Test system	Source
not irritating	Rabbit	test report OECD 404

Isopropanol:

Result/Effect	Species/Test system	Source
not irritating	not specified	literature

11.1.4 Serious eye damage / eye irritation

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data related to ingredients:

Hexamethyldisiloxane:

Result/Effect	Species/Test system	Source
not irritating	Rabbit	test report OECD 405

Isopropanol:

Result/Effect	Species/Test system	Source
irritating	Rabbit	ECHA

11.1.5 Respiratory or skin sensitization

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data related to ingredients:

Hexamethyldisiloxane:

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing	Voluntary persons; Human skin patch test	test report



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Isopropanol:

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing	Guinea-pig; Bühler	ECHA OECD 406

11.1.6 Germ cell mutagenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data related to ingredients:

Hexamethyldisiloxane:

Result/Effect	Species/Test system	Source
negative	mutation assay (in vitro) bacterial cells	test report OECD 471
negative	mutation assay (in vitro) mammalian cells	test report OECD 476
negative	chromosome aberration assay (in vitro) mammalian cells	test report OECD 473
negative	chromosome aberration assay (in vivo) rat (Sprague Dawley) intraperitoneal; bone marrow cells	test report OECD 475

11.1.7 Carcinogenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data related to ingredients:

Hexamethyldisiloxane:

Animal tests have not revealed any carcinogenic effects.

Result/Effect	Species/Test system	Source
NOAEC: $\geq 33,2$ mg/l NOAEC = NOAEC (carcinogenic effects relevant for humans)	carcinogenicity study rat (F344) by inhalation (vapour) 2 a; 5 d/w; 6 hours/day	test report OECD 453

11.1.8 Reproductive toxicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data related to ingredients

Hexamethyldisiloxane:

Animal tests have shown no indications of possibility of damage to embryo and impairment of fertility.

Result/Effect (Examinations of fertility disruption)	Species/Test system	Source
NOAEC: $\geq 33,2$ mg/l NOAEC = NOAEC (fertility)	two generation study rat (Sprague Dawley) by inhalation (vapour) ; 7 d/w; 6 hours/day	test report EPA OPPTS 870.3800+870.6300

Result/Effect (Examinations of developmental toxicity and teratogenicity)	Species/Test system	Source
NOAEC (developmental): 10,6 mg/l NOAEC (maternal): $\geq 33,2$ mg/l Symptoms/Effect: Pups: lack of habituation	Reproduction and Fertility Effects + Developmental Neurotoxicity Study rat (Sprague Dawley) by inhalation (vapour)	test report EPA OPPTS 870.3800+870.6300



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	; 7 d/w; 6 hours/day	
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11.1.9 Specific target organ toxicity (single exposure)

Assessment: For this endpoint no toxicological test data is available for the whole product.

Data related to ingredients:
 Isopropanol:

Route of exposure	Result/Effect	Source
by inhalation	Target organs: central nervous system Vapours may be narcotising.	ECHA

11.1.10 Specific target organ toxicity (repeated exposure)

Assessment: For this endpoint no toxicological test data is available for the whole product.

Data related to ingredients:
 Hexamethyldisiloxane:

In animal experiments with repeated exposure no effects with relevance for humans were observed.

Result/Effect	Species/Test system	Source
NOAEL: \geq 1000 mg/kg NOAEL = NOAEL (relevant to humans)	Subacute study rat oral (gavage) 28 d	test report OECD 407
NOAEL: \geq 1000 mg/kg NOAEL = NOAEL (relevant to humans)	Subacute study rat dermal 28 d; 5 d/w; 6 hours/day	test report OECD 410
NOAEC: $>$ 33,2 mg/l NOAEC = NOAEC (relevant to humans)	chronic study rat 2 a; 5 d/w; 6 hours/day	test report OECD 453

11.1.11 Aspiration hazard

Assessment: For this endpoint no toxicological test data is available for the whole product.

11.1.12 Further toxicological information

Data related to ingredients:
 Hexamethyldisiloxane:

May cause skin irritation at prolonged/repeated contact with the product.

SECTION 12: Ecological information

12.1 Toxicity

Assessment: For the product as a whole, no test data is available.
 Data related to ingredients: Data derived for the product as a whole are of higher priority than data for single ingredients.
 Hexamethyldisiloxane: Very toxic to aquatic organisms. Toxic to aquatic life with long lasting effects.

Result/Effect	Species/Test system	Source
LC50: 0,46 mg/l (measured)	dynamic rainbow trout (<i>Oncorhynchus mykiss</i>) (96 h)	test report OECD 203
EC50: $>$ 0,37 mg/l (measured)	static <i>Daphnia magna</i> (48 h)	test report OECD 202
IC10 (growth rate): 0,14 mg/l (measured)	static <i>Selenastrum capricornutum</i> (95 h)	test report OECD 201



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IC50 (growth rate): > 0,55 mg/l (measured)	static Selenastrum capricornutum (95 h)	test report OECD 201
EC50 (respiratory inhibition): >= 100 mg/l (nominal)	static sludge (3 h)	test report OECD 209
NOEC: >= 0,04 mg/l (measured)	dynamic carp (Cyprinus carpio) (56 d)	test report OECD 305
NOEC (reproduction): 0,08 mg/l (measured)	semistatic Daphnia magna (21 d)	test report OECD 211

Isopropanol:

Result/Effect	Species/Test system	Source
LC50: > 9640 mg/l	dynamic minnow (Pimephales promelas) (96 h)	ECHA
EC50: > 10000 mg/l	static Daphnia magna (48 h)	ECHA
IC0: 1800 mg/l	static Scenedesmus quadricauda (7 d)	ECHA

12.2 Persistence and degradability
 Assessment:

For the product as a whole, no test data is available.
 Organic solvent: readily biologically degradable.

Data related to ingredients:

Hexamethyldisiloxane:

The substance is degradable in abiotic processes.

Biodegradation:

Result	Test system/Method	Source
2 % / 28 d Not readily biodegradable.	biological oxygen demand (BOD)	test report OECD 301C

Hydrolysis:

Result	Test system	Source
Half-life: 1,47 h	pH 5; 24,8 °C	test report OECD 111
Half-life: 120 h	pH 7; 24,7 °C	test report OECD 111
Half-life: 12,4 h	pH 9; 24,8 °C	test report OECD 111

Isopropanol:

Biodegradation:

Result	Test system/Method	Source
readily biodegradable	biological oxygen demand (BOD)	ECHA

12.3 Bioaccumulative potential

Assessment:

For the product as a whole, no test data is available.

Data related to ingredients

Hexamethyldisiloxane:

Under experimental conditions the substance showed an increased potential for bioaccumulation.

Result/Effect	Species/Test system	Source
Bioconcentration factor (BCF): 1290 - 2410	carp (Cyprinus carpio) (70 d; 0,04 mg/l)	no data available
Bioconcentration factor (BCF): 776 - 1660	carp (Cyprinus carpio) (70 d; 0,004 mg/l)	no data available



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12.4 Mobility in soil
 Assessment: No data known.
 Data related to ingredients:

Hexamethyldisiloxane:
 adsorption - desorption:

Result	Test system/Method	Source
log Koc: 2,53	Berechnung	no data available

12.5 Results of PBT and vPvB assessment: No data available.
 Data on substances:

Hexamethyldisiloxane: The substance does not fulfill the PBT criteria. The substance does not fulfill the vPvB criteria.
 Isopropanol: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects: none known

SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Material

Recommendation: Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

13.1.2 Uncleaned packaging

Recommendation: Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

SECTION 14: Transport information

14.1 - UN number; UN proper shipping name; Transport hazard class(es); Packing group

14.4

Road ADR:
 Valuation: Dangerous Goods
 14.1 UN no.: 1993
 14.2 Proper Shipping Name: Entzündbarer flüssiger Stoff, n.a.g. (Enthält Hexamethyldisiloxan und 2-Propanol)
 14.3 Class: 3
 14.4 Packaging Group: II

Railway RID:
 Valuation: Dangerous Goods
 14.1 UN no.: 1993
 14.2 Proper Shipping Name: Flammable liquid, n.o.s. (Contains hexamethyldisiloxane and 2-propanol)
 14.3 Class: 3
 14.4 Packaging Group: II

Transport by sea IMDG-Code:
 Valuation: Dangerous Goods



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14.1 UN no.: 1993
 14.2 Proper Shipping Name: Flammable liquid, n.o.s. (Contains hexamethyldisiloxane and 2-propanol)
 14.3 Class: 3
 14.4 Packaging Group: II

Air transport ICAO-TI/IATA-DGR:

Valuation: Dangerous Goods

14.1 UN no.: 1993
 14.2 Proper Shipping Name: Flammable liquid, n.o.s. (Contains hexamethyldisiloxane and 2-propanol)
 14.3 Class: 3
 14.4 Packaging Group: II

14.5 Environmental hazards

Hazardous to the environment: yes

Marine Pollutant (IMDG): yes

14.6 Special precautions for user: Relevant information in other sections has to be considered.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Bulk transport in tankers is not intended.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 National and local regulations must be observed.
 For information on labelling please refer to section 2 of this document.

15.2 Details of international registration status
 Relevant information about individual substance inventories, where available, is given below.

Japan: ENCS (Handbook of Existing and New Chemical Substances):
 This product is listed in, or complies with, the substance inventory.

Australia: AICS (Australian Inventory of Chemical Substances):
 This product is listed in, or complies with, the substance inventory.

People's Republic of China: IECSC (Inventory of Existing Chemical Substances in China):
 This product is listed in, or complies with, the substance inventory.

Canada: DSL (Domestic Substance List):
 This product is listed in, or complies with, the substance inventory.

Philippines: PICCS (Philippine Inventory of Chemicals and Chemical Substances):
 This product is listed in, or complies with, the substance inventory.

United States of America (USA): TSCA (Toxic Substance Control Act Chemical Substance Inventory):
 All components of this product are listed as active or are in compliance with the substance inventory.

Taiwan: TCSI (Taiwan Chemical Substance Inventory):
 This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be



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European Economic Area (EEA): calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.
REACH (Regulation (EC) No 1907/2006):
General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

South Korea (Republic of Korea): AREC (Act on Registration and Evaluation of Chemicals; “K-REACH”):
General note: in case of registration obligations for substances or polymers imported into Korea or manufactured within Korea these are fulfilled by the supplier mentioned in section 1. The registration obligations for substances or polymers imported into Korea by customers or other downstream users must be fulfilled by the latter.

SECTION 16: Other information

- 16.1 Material
The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.
The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.
- 16.2 Further information: Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.