

# SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830



## SCRUB

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

#### 1.1. Product identifier

Product name : SCRUB  
Registration number REACH : Not applicable (mixture)  
Product type REACH : Mixture

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1 Relevant identified uses

Detergent according to Regulation (EC) No 648/2004

##### 1.2.2 Uses advised against

No uses advised against known

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier of the safety data sheet

TEC7\*  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 85 97 37  
☎ +32 14 85 97 38  
info@tec7.be  
\*TEC7 is a registered trademark of Novatech International  
Industrielaan 5B

##### Manufacturer of the product

Novatech International N.V.  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 85 97 37  
☎ +32 14 85 97 38  
info@tec7.be

#### 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):  
+32 14 58 45 45 (BIG)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

#### 2.2. Label elements

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

#### 2.3. Other hazards

No other hazards known

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
alcohols, C12-14, ethoxylated <2.5 mol EO, sulfates, sodium salts	68891-38-3 500-234-8	C<5 %	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	(1)(8)	Constituent

(8) Specific concentration limits, see heading 16

(1) For H-statements in full: see heading 16

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134-16433-480-en

# SCRUB

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General:

If you feel unwell, seek medical advice.

#### After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

#### After skin contact:

Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.

#### After eye contact:

Rinse with water. Take victim to an ophthalmologist if irritation persists.

#### After ingestion:

Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

#### 4.2.1 Acute symptoms

##### After inhalation:

No effects known.

##### After skin contact:

No effects known.

##### After eye contact:

Redness of the eye tissue.

##### After ingestion:

Vomiting. Diarrhoea. Headache. Abdominal pain. Disturbances of consciousness.

#### 4.2.2 Delayed symptoms

No effects known.

### 4.3. Indication of any immediate medical attention and special treatment needed

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### 5.1.1 Suitable extinguishing media:

Water spray. Polyvalent foam. BC powder. Carbon dioxide.

#### 5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

### 5.2. Special hazards arising from the substance or mixture

Upon combustion: formation of CO, CO<sub>2</sub> and small quantities of sulphur oxides.

### 5.3. Advice for firefighters

#### 5.3.1 Instructions:

No specific fire-fighting instructions required.

#### 5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No naked flames.

#### 6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing.

##### Suitable protective clothing

See heading 8.2

### 6.2. Environmental precautions

Contain leaking substance. Plug the leak, cut off the supply.

### 6.3. Methods and material for containment and cleaning up

Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

See heading 13.

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## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe normal hygiene standards.

### 7.2. Conditions for safe storage, including any incompatibilities

#### 7.2.1 Safe storage requirements:

Storage temperature: <50 °C. Keep out of direct sunlight. Keep container in a well-ventilated place. Meet the legal requirements.

#### 7.2.2 Keep away from:

Heat sources, oxidizing agents, reducing agents, (strong) acids, (strong) bases.

#### 7.2.3 Suitable packaging material:

No data available

#### 7.2.4 Non suitable packaging material:

No data available

### 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 Occupational exposure

##### a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

##### b) National biological limit values

If limit values are applicable and available these will be listed below.

#### 8.1.2 Sampling methods

If applicable and available it will be listed below.

#### 8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

#### 8.1.4 DNEL/PNEC values

##### DNEL/DMEL - Workers

alcohols, C12-14, ethoxylated < 2.5 mol EO, sulfates, sodium salts

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	175 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	2750 mg/kg bw/day	

##### DNEL/DMEL - General population

alcohols, C12-14, ethoxylated < 2.5 mol EO, sulfates, sodium salts

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	52 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	1650 mg/kg bw/day	
	Long-term systemic effects oral	15 mg/kg bw/day	

##### PNEC

alcohols, C12-14, ethoxylated < 2.5 mol EO, sulfates, sodium salts

Compartments	Value	Remark
Fresh water	0.24 mg/l	
Marine water	0.024 mg/l	
Aqua (intermittent releases)	0.071 mg/l	
STP	10 g/l	
Fresh water sediment	0.9168 mg/kg sediment dw	
Marine water sediment	0.09168 mg/kg sediment dw	
Soil	7.5 mg/kg soil dw	

#### 8.1.5 Control banding

If applicable and available it will be listed below.

### 8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

#### 8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Measure the concentration in the air regularly. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

#### 8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Do not eat, drink or smoke during work.

##### a) Respiratory protection:

High gas/vapour concentration: gas mask with filter type A.

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## b) Hand protection:

Gloves.

Materials	Breakthrough time	Thickness
viton	>480 minutes	0.7 mm

- materials (good resistance)

Viton.

## c) Eye protection:

Not required for normal conditions of use.

## d) Skin protection:

Protective clothing.

## 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical form	Liquid
Odour	Characteristic odour
Odour threshold	No data available
Colour	No data available on colour
Particle size	Not applicable (liquid)
Explosion limits	No data available
Flammability	Non-flammable
Log Kow	Not applicable (mixture)
Dynamic viscosity	9000 mPa.s ; 20 °C
Kinematic viscosity	7200 mm <sup>2</sup> /s ; 20 °C
Melting point	0 °C
Boiling point	100 °C
Flash point	No data available
Evaporation rate	0.3 ; butyl acetate
Relative vapour density	> 1
Vapour pressure	23.32 hPa ; 20 °C
Solubility	water ; insoluble
Relative density	1.3 ; 20 °C
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	8.0

### 9.2. Other information

Absolute density	1250 kg/m <sup>3</sup> ; 20 °C
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

Keep away from naked flames/heat.

### 10.5. Incompatible materials

Oxidizing agents, reducing agents, (strong) acids, (strong) bases.

### 10.6. Hazardous decomposition products

Upon combustion: formation of CO, CO<sub>2</sub> and small quantities of sulphur oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### 11.1.1 Test results

#### Acute toxicity

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No (test)data on the mixture available

alcohols, C12-14, ethoxylated < 2.5 mol EO, sulfates, sodium salts

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 401	4100 mg/kg bw		Rat (male/female)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rat (male/female)	Experimental value	
Inhalation						Data waiving	

Judgement is based on the relevant ingredients

## Conclusion

Not classified for acute toxicity

## Corrosion/irritation

### SCRUB

No (test)data on the mixture available

alcohols, C12-14, ethoxylated < 2.5 mol EO, sulfates, sodium salts

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage	Equivalent to OECD 405		24; 48; 72 hours	Rabbit	Experimental value	
Skin	Irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	

Judgement is based on the relevant ingredients

## Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

Not classified as irritating to the respiratory system

## Respiratory or skin sensitisation

### SCRUB

No (test)data on the mixture available

alcohols, C12-14, ethoxylated < 2.5 mol EO, sulfates, sodium salts

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406		24; 48 hours	Guinea pig (female)	Experimental value	

Judgement is based on the relevant ingredients

## Conclusion

Not classified as sensitizing for skin

Not classified as sensitizing for inhalation

## Specific target organ toxicity

### SCRUB

No (test)data on the mixture available

alcohols, C12-14, ethoxylated < 2.5 mol EO, sulfates, sodium salts

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	OECD 408	> 225 mg/kg bw/day		No effect	90 day(s)	Rat (male/female)	Experimental value
Dermal	NOEL	Equivalent to OECD 411	≥ 195 mg/l		No adverse systemic effects	13 weeks (5 days/week)	Mouse (male/female)	Read-across

Judgement is based on the relevant ingredients

## Conclusion

Not classified for subchronic toxicity

## Mutagenicity (in vitro)

### SCRUB

No (test)data on the mixture available

alcohols, C12-14, ethoxylated < 2.5 mol EO, sulfates, sodium salts

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	OECD 476	Mouse (lymphoma L5178Y cells)	No effect	Experimental value

## Mutagenicity (in vivo)

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No (test)data on the mixture available

alcohols, C12-14, ethoxylated < 2.5 mol EO, sulfates, sodium salts

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	OECD 475		Mouse (male/female)	Bone marrow	Experimental value

## Carcinogenicity

### SCRUB

No (test)data on the mixture available

alcohols, C12-14, ethoxylated < 2.5 mol EO, sulfates, sodium salts

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Inhalation								Data waiving
Dermal								Data waiving
Oral								Data waiving

## Reproductive toxicity

### SCRUB

No (test)data on the mixture available

alcohols, C12-14, ethoxylated < 2.5 mol EO, sulfates, sodium salts

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	OECD 414	> 1000 mg/kg bw/day	10 day(s)	Rat	No effect		Experimental value
Maternal toxicity	NOAEL	OECD 414	> 1000 mg/kg bw/day	10 day(s)	Rat	No effect		Experimental value
Effects on fertility	NOAEL	Equivalent to OECD 416	> 300 mg/kg bw/day		Rat (male/female)	No effect		Experimental value

Judgement is based on the relevant ingredients

### Conclusion CMR

Not classified for carcinogenicity

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

## Toxicity other effects

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No (test)data on the mixture available

## Chronic effects from short and long-term exposure

### SCRUB

No effects known.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### SCRUB

No (test)data on the mixture available

alcohols, C12-14, ethoxylated < 2.5 mol EO, sulfates, sodium salts

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	7.1 mg/l	96 h	Brachydanio rerio	Flow-through system	Fresh water	Experimental value; GLP
Acute toxicity invertebrates	EC50	OECD 202	7.4 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	ErC50	OECD 201	27.7 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; GLP
	NOEC	OECD 201	0.95 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; GLP
Long-term toxicity fish	NOEC	OECD 204	0.2 mg/l	28 day(s)	Oncorhynchus mykiss	Flow-through system	Fresh water	Experimental value; GLP
Long-term toxicity aquatic invertebrates	NOEC	OECD 211	0.27 mg/l	21 day(s)	Daphnia magna	Flow-through system	Fresh water	Read-across; Reproduction
Toxicity aquatic micro-organisms	EC50	DIN 38412-8	> 10 g/l	16 h	Pseudomonas putida	Static system	Fresh water	Experimental value; GLP

Judgement is based on the relevant ingredients

### Conclusion

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Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

## 12.2. Persistence and degradability

alcohols, C12-14, ethoxylated < 2.5 mol EO, sulfates, sodium salts

### Biodegradation water

Method	Value	Duration	Value determination
EU Method C.4	100 %; GLP	28 day(s)	Experimental value

### Conclusion

The surfactant(s) is/are biodegradable

## 12.3. Bioaccumulative potential

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### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

alcohols, C12-14, ethoxylated < 2.5 mol EO, sulfates, sodium salts

### Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 123		0.3	23 °C	Experimental value

### Conclusion

No test data of component(s) available

## 12.4. Mobility in soil

alcohols, C12-14, ethoxylated < 2.5 mol EO, sulfates, sodium salts

### (log) Koc

Parameter	Method	Value	Value determination
log Koc	Other	0.34	QSAR

### Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level I	0.000000004 %	0.00000997 %	0.0159 %	0.0158 %	100 %	Calculated value

### Conclusion

Contains component(s) with potential for mobility in the soil

## 12.5. Results of PBT and vPvB assessment

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

## 12.6. Other adverse effects

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### Global warming potential (GWP)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1. Waste treatment methods

#### 13.1.1 Provisions relating to waste

Can be considered as non-hazardous waste according to Regulation (EU) No 1357/2014.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

20 01 30 (separately collected fractions (except 15 01): detergents other than those mentioned in 20 01 29). Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

Neutralize. Remove waste in accordance with local and/or national regulations. Treat using the best available techniques before discharge into drains or the aquatic environment.

#### 13.1.3 Packaging/Container

No data available.

## SECTION 14: Transport information

### Road (ADR)

#### 14.1. UN number

Transport	Not subject
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#### 14.2. UN proper shipping name

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## 14.3. Transport hazard class(es)

Hazard identification number	
Class	
Classification code	

## 14.4. Packing group

Packing group	
Labels	

## 14.5. Environmental hazards

Environmentally hazardous substance mark	no
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## 14.6. Special precautions for user

Special provisions	
Limited quantities	

### Rail (RID)

#### 14.1. UN number

Transport	Not subject
-----------	-------------

#### 14.2. UN proper shipping name

#### 14.3. Transport hazard class(es)

Hazard identification number	
Class	
Classification code	

#### 14.4. Packing group

Packing group	
Labels	

#### 14.5. Environmental hazards

Environmentally hazardous substance mark	no
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#### 14.6. Special precautions for user

Special provisions	
Limited quantities	

### Inland waterways (ADN)

#### 14.1. UN number

Transport	Not subject
-----------	-------------

#### 14.2. UN proper shipping name

#### 14.3. Transport hazard class(es)

Class	
Classification code	

#### 14.4. Packing group

Packing group	
Labels	

#### 14.5. Environmental hazards

Environmentally hazardous substance mark	no
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#### 14.6. Special precautions for user

Special provisions	
Limited quantities	

### Sea (IMDG/IMSBC)

#### 14.1. UN number

Transport	Not subject
-----------	-------------

#### 14.2. UN proper shipping name

#### 14.3. Transport hazard class(es)

Class	
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#### 14.4. Packing group

Packing group	
Labels	

#### 14.5. Environmental hazards

Marine pollutant	-
Environmentally hazardous substance mark	no

#### 14.6. Special precautions for user

Special provisions	
Limited quantities	

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Annex II of MARPOL 73/78	
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### Air (ICAO-TI/IATA-DGR)

#### 14.1. UN number

Transport	Not subject
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#### 14.2. UN proper shipping name

#### 14.3. Transport hazard class(es)



# SCRUB

Class	
14.4. Packing group	
Packing group	
Labels	
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
0.000 g/l	

Ingredients according to Regulation (EC) No 648/2004 and amendments

<5% anionic surfactants, <5% non-ionic surfactants, <5% soap, perfumes, geraniol, citronellol, limonene, tetramethylol acetylenediurea

#### National legislation The Netherlands

##### SCRUB

Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 03
Waterbezwaarlijkheid	Insufficient data available

#### National legislation Germany

##### SCRUB

WGK	1; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
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alcohols, C12-14, ethoxylated < 2.5 mol EO, sulfates, sodium salts

TA-Luft	5.2.5
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#### National legislation France

##### SCRUB

No data available

#### National legislation Belgium

##### SCRUB

No data available

#### Other relevant data

##### SCRUB

No data available

### 15.2. Chemical safety assessment

No chemical safety assessment is required.

## SECTION 16: Other information

#### Full text of any H-statements referred to under headings 2 and 3:

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

(\*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

#### Specific concentration limits CLP

alcohols, C12-14, ethoxylated < 2.5 mol EO, sulfates, sodium salts	C ≥ 10 %	Eye Damage 1;H318	ECHA
	5 % < C < 10 %	Eye Irrit 2;H319	ECHA

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the

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