



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)/(EU) 2020/878

## **MOUSSEAL®-MR F-30 #2053**



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

#### **1.1 Product identifier**

**MOUSSEAL®-MR F-30 #2053**

**UFI: C8P5-80T1-300N-VCVK**

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

Use of the substance/mixture  
Fire-extinguishing foam

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

Manufacturer	Fabrik chemischer Präparate von Dr. R. Sthamer GmbH & Co. KG
Street	Liebigstraße 5
Postal code/City	D-22113 Hamburg
Country	Deutschland
Telephone	+49 (0)40/736168-0
Telefax	+49 (0)40/736168-60
E-mail (competent person)	labor@sthamer.com
Website	http://sthamer.com
Department responsible for information	Dr. Prall, +49 (0)40/736168-31
Emergency telephone number	+49 (0)40/736168-0

#### **1.4 Emergency telephone number**

GIZ-Nord Poisons Centre of the University of Göttingen

+49 (0)551/19240

### **SECTION 2: Hazards identification**

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

Classification according to Regulation (EC) No 1272/2008 [CLP]  
Eye Irrit. 2 H319

#### **2.2 Label elements**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]  
Hazard pictograms



Signal word	<b>WARNING</b>	
Hazard statements	H319	Causes serious eye irritation.
Precautionary statements	P262	Do not get in eyes, on skin, or on clothing.
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
	P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Classification procedure	Calculation method.	

## 2.3 Other hazards

### Endocrine disrupting properties

#### Preparation related information

There are no data available on the mixture itself.

#### Information on ingredients

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

This substance does not have endocrine disrupting properties with respect to humans.

### Results of PBT and vPvB assessment

#### Preparation related information

There are no data available on the mixture itself.

#### Information on ingredients

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The data refer to the product as delivered. The solutions for use produced according to dilution recommendations are to be classified differently.

Can harm the aquatic fauna when entering surface waters.

Can harm the bacteria population in waste water treatment plants when entering the sewerage system.

Breathing is not possible whilst submerged in the foam. Take care when spraying people!

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not applicable

### 3.2 Mixtures

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES

Concentration: 100 - 100%

The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].

The product does not contain any relevant amounts of substances that are on the SVHC list.

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Remove contaminated, saturated clothing immediately.

Wash thoroughly the body (shower or bath).

Observe risk of aspiration if vomiting occurs.

When in doubt or if symptoms are observed, get medical advice.

#### Following inhalation

Provide fresh air.

Consult a doctor immediately in the case of inhaling spray mist and show him packing or label.

#### In case of skin contact

Wash immediately with:: Water

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### Following ingestion

Do NOT induce vomiting.

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

Dizziness  
Nausea  
Gastrointestinal complaints

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

If unconscious but breathing normally, place in recovery position and seek medical advice.  
IF SWALLOWED: Immediately call a POISON CENTER/doctor/....

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

The product itself does not burn.  
Co-ordinate fire-fighting measures to the fire surroundings.

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

The product itself does not burn.

### 5.3 Advice for firefighters

Regardless of the admixture of a foam agent, extinguishing water can be heavily contaminated with hazardous substances due to the absorption of fire residues and should therefore, if possible, not enter the sewage system or bodies of water.

## SECTION 6: Accidental release measures

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

Provide adequate ventilation.

### 6.2 Environmental precautions

Cover drains.  
Do not allow to enter into soil/subsoil.  
Do not allow to enter into surface water or drains.

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

Take up mechanically, placing in appropriate containers for disposal.  
Treat the recovered material as prescribed in the section on waste disposal.  
Suitable material for taking up  
Sand  
Sawdust  
Chemical binding agents, containing acids

### 6.4 Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid  
Skin contact  
Eye contact  
Wear personal protection equipment (refer to section 8).

## Measures to prevent fire

The product is not

- oxidising
- Combustible
- Flammable
- Explosive
- Highly flammable

No special fire protection measures are necessary.

## Environmental precautions

Shafts and sewers must be protected from entry of the product.

## Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff.

## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

Do not store at temperatures above: +50°C

### Requirements for storage rooms and vessels

Suitable container/equipment material

- Refined steel
- Polyethylene (PE)

Unsuitable container/equipment material

- Aluminium
- Light metal
- Copper
- Zinc
- Alloy, containing copper
- Alloy, contains light metal
- Iron.
- Steel

### Hints on joint storage

Storage class

12: non-combustible liquids that cannot be assigned to any of the above storage classes

## 7.3 Specific end use(s)

Fire-extinguishing foams based on synthetic surfactants

Do not use for cleaning purposes.

### Recommendation

Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Substance name: ---

CAS No.: ---

REACH No.: ---

Occupational exposure limit values: ---; Limit value type (country of origin): ---

### 8.2 Exposure controls

#### Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Avoid contact with skin, eyes and clothes.  
Remove contaminated, saturated clothing.  
Wash contaminated clothing prior to re-use.  
Wash hands before breaks and after work.  
Apply skin care products after work.

### Eye/face protection

Suitable eye protection  
Eye glasses with side protection  
goggles  
Face protection shield  
Recommended eye protection articles  
EN 166

### Hand protection

Suitable gloves type  
Gloves with long cuffs  
Suitable material  
NBR (Nitrile rubber)  
Butyl caoutchouc (butyl rubber)  
Breakthrough time  
120 min.  
Thickness of the glove material  
> 0.6 mm  
Recommended glove articles  
EN ISO 374  
Breakthrough times and swelling properties of the material must be taken into consideration.

### Body protection

Body protection: not required.

### Respiratory protection

Usually no personal respirative protection necessary.

### Environmental exposure controls

Store concentrate according to national regulations.  
Do not let the concentrate get into the environment.  
If possible, hold back the application solution and dispose of after use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

a) Physical state	:	Liquid	
b) Colour	:	colourless	/ yellow
c) Odour	:	stinging	
d) Melting point/freezing point	:	-30°C	EN 1568:2018
e) Boiling point or initial boiling point and boiling range	:	> 100°C	DIN 51751
f) Flammability	:	not applicable	
g) Lower and upper explosion limit/flammability limit	:	No data available	
h) Flash point	:	No flash point up to 100 °C.	
i) Ignition temperature in °C	:	not applicable	
j) Decomposition temperature	:	No data available	
k) pH	at °C	20	: 8,0 - 9,0 DIN 19268

l) Viscosity	at °C	20	:	< 10 mm <sup>2</sup> /s	DIN 51562	Newton
	at °C	-30	:	< 50 mm <sup>2</sup> /s	DIN 51562	Newton
m) Solubility			:	Water: completely miscible	OECD 105	
n) Partition coefficient n-octanol/water (log value)			:	not applicable		
o) Vapour pressure			:	No data available		
p) Density and/or relative density	at °C	20	:	1,260 - 1,300 g/ml	DIN 12791	
q) Relative vapour density			:	No data available		
r) particle characteristics			:	not applicable		

## 9.2 Other information

### Information with regard to physical hazard classes

a) Explosives	:	not applicable
b) Explosives	:	not applicable
c) Aerosols	:	not applicable
d) Oxidising gas	:	not applicable
e) Gases under pressure	:	not applicable
f) Flammable liquids	:	not applicable
g) Flammable solids	:	not applicable
h) Self-reactive substances and mixtures	:	not applicable
i) Pyrophoric liquids	:	not applicable
j) Pyrophoric solids	:	not applicable
k) Self-heating substances and mixtures	:	not applicable
l) Substances or mixtures which, in contact with water, emit flammable gases	:	not applicable
m) Oxidising liquids	:	not applicable
n) Oxidizing solids	:	not applicable
o) Organic peroxides	:	not applicable
p) Corrosive to metals	:	See section 7 of the safety data sheet.
q) Desensitised explosives	:	not applicable

### Other safety characteristics

a) Mechanical sensitivity	:	not applicable
b) Self-accelerating polymerisation temperature (SAPT)	:	not applicable
c) formation of explosible dust/air mixtures	:	not applicable
d) acid/alkaline reserve	:	not applicable
e) Evaporation rate	:	No data available
f) miscibility	:	Water: completely miscible
g) Conductivity	:	> 20000 µS/cm
h) Corrosiveness	:	Skin corrosion/irritation: none Serious eye damage/irritation: irritant.
i) gas group	:	not applicable
j) Redox potential	:	not applicable
k) radical formation potential	:	not applicable
l) photocatalytic properties	:	not applicable

### Additional hazards

Breathing is not possible whilst submerged in the foam. Take care when spraying people!

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Materials to avoid



Alkali (lye), concentrated  
Alkali metals  
Acid, concentrated  
Oxidising agent, strong  
Reducing agent, strong  
Acid halides

## 10.2 Chemical stability

No special measures are necessary.

## 10.3 Possibility of hazardous reactions

No special measures are necessary.

## 10.4 Conditions to avoid

Do not store at temperatures above: +50°C

## 10.5 Incompatible materials

See section 7. No additional measures necessary.

## 10.6 Hazardous decomposition products

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### a) Acute toxicity

##### Acute oral toxicity

###### Preparation related information

LD50	> 2000 mg/kg	The acute oral toxicity is corresponding to GHS-category 5.
Species	Rat	
Method	Calculation method.	

###### Information on ingredients

##### INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].  
No classification in the above-mentioned hazard class  
(Source: Safety Data Sheet)

##### Acute dermal toxicity

###### Preparation related information

There are no data available on the mixture itself.

###### Information on ingredients

##### INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].  
No classification in the above-mentioned hazard class  
(Source: Safety Data Sheet)

##### Acute inhalation toxicity

###### Preparation related information

There are no data available on the mixture itself.

###### Information on ingredients

##### INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].  
No classification in the above-mentioned hazard class  
(Source: Safety Data Sheet)

**b) Skin corrosion/irritation**

Preparation related information

non-irritant.

Species ---

Method Calculation method.

Information on ingredients

*INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:*

non-irritant.

(Source: Safety Data Sheet)

**c) Serious eye damage/irritation**

Preparation related information

Causes eye irritation.

Species ---

Method Calculation method.

Information on ingredients

*INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:*

non-irritant.

(Source: Safety Data Sheet)

**d) Respiratory or skin sensitisation**

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

*INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:*

not sensitising.

(Source: Safety Data Sheet)

**e) Germ cell mutagenicity**

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

*INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:*

No indications of human germ cell mutagenicity exist.

(Source: Safety Data Sheet)

**f) Carcinogenicity**

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

*INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:*

No indication of human carcinogenicity.

(Source: Safety Data Sheet)

**g) Reproductive toxicity**

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

*INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:*

No indications of human reproductive toxicity exist.

(Source: Safety Data Sheet)

**h) STOT-single exposure**

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

*INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:*



No known symptoms to date.  
(Source: Safety Data Sheet)

**i) STOT-repeated exposure**

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

**INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:**

No known symptoms to date.  
(Source: Safety Data Sheet)

**j) Aspiration hazard**

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

**INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:**

No known symptoms to date.  
(Source: Safety Data Sheet)

## 11.2 Information on other hazards

**Endocrine disrupting properties**

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

**INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:**

This substance does not have endocrine disrupting properties with respect to humans.  
(Source: Safety Data Sheet)

**Other information**

Breathing is not possible whilst submerged in the foam. Take care when spraying people!

## SECTION 12: Ecological information

### 12.1 Toxicity

**Acute (short-term) fish toxicity**

Preparation related information

Effective dose LC50 : > 100 < 1000\* mg/L  
Exposure time : 96 h  
Species : Leuciscus idus (golden orfe)  
Method : Bridging principle "Substantially similar mixtures".

Information on ingredients

**INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:**

No classification in the above-mentioned hazard class  
(Source: Safety Data Sheet)

**Acute (short-term) toxicity to aquatic invertebrates**

Preparation related information

Effective dose EC50 : > 1000\* mg/L  
Exposure time : 24 h  
Species : Daphnia magna (Big water flea)  
Method : Bridging principle "Substantially similar mixtures".

Information on ingredients

**INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:**

No classification in the above-mentioned hazard class  
(Source: Safety Data Sheet)

## Acute (short-term) toxicity to algae and cyanobacteria

### Preparation related information

Effective dose EC50 : > 100 < 1000\* mg/L  
 Exposure time : 72 h  
 Species : Scenedesmus subspicatus  
 Method : Bridging principle "Substantially similar mixtures".

### Information on ingredients

#### INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

No classification in the above-mentioned hazard class  
 (Source: Safety Data Sheet)

## Effects in sewage plants

### Preparation related information

Analytical method : Respiratory inhibition of municipal activated sludge.  
 5000\* mg/L ► Concentration : 100% Dilution : > 200\*  
 Method : Bridging principle "Substantially similar mixtures".

### Information on ingredients

#### INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

No classification in the above-mentioned hazard class  
 (Source: Safety Data Sheet)

Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge.

The product may lead to foaming in sewage plants.

## Remark

Observe local regulations concerning effluent treatment.  
 Special pre-treatments are necessary.

\* The statement is derived from products of similar structure or composition.

## 12.2 Persistence and degradability

### Biodegradation

#### Preparation related information

Readily biodegradable (according to OECD criteria).  
 Degradation rate : > 70%\*  
 Test duration : 28 d  
 Analytical method : BOD (% of COD).  
 Method : Bridging principle "Substantially similar mixtures".  
 Type : Aerobic biological treatment

#### Information on ingredients

#### INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

> 70% (28d) OECD 301  
 Readily biodegradable (according to OECD criteria).  
 (Source: Safety Data Sheet)

### Chemical oxygen demand (COD)

< 500000\* mg \*O<sub>2</sub>/L ► Concentration : 100% Method DIN EN 38409-H41-1

### Biochemical oxygen demand

< 400000\* mg \*O<sub>2</sub>/L ► Concentration : 100% Method DIN EN 1899-1 Test duration 5 d

### BOD5/COD ratio

80%

\* The statement is derived from products of similar structure or composition.

## 12.3 Bioaccumulative potential

### Preparation related information

There are no data available on the mixture itself.

### Information on ingredients

**INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:**

No classification in the above-mentioned hazard class

No information available. No classification in the above-mentioned hazard class

(Source: Safety Data Sheet)

## 12.4 Mobility in soil

If product enters soil, it will be mobile and may contaminate groundwater.

## 12.5 Results of PBT and vPvB assessment

### Preparation related information

There are no data available on the mixture itself.

### Information on ingredients

**INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

(Source: Safety Data Sheet)

## 12.6 Endocrine disrupting properties

### Preparation related information

There are no data available on the mixture itself.

### Information on ingredients

**INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:**

This substance does not have endocrine disrupting properties with respect to humans.

(Source: Safety Data Sheet)

## 12.7 Other adverse effects

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Dispose of waste according to applicable legislation.

#### **Waste codes/waste designations according to EWC/AVV**

##### **Waste code product**

**06** WASTES FROM INORGANIC CHEMICAL PROCESSES

**0603** wastes from the MFSU of salts and their solutions and metallic oxides

**060314** solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

##### **Waste code packaging**

**15** WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED

**1501** packaging (including separately collected municipal packaging waste)

**150110\*** packaging containing residues of or contaminated by dangerous substances

#### **Remark**

Delivery to an approved waste disposal company.

Send to a hazardous waste incinerator facility under observation of official regulations.

## SECTION 14: Transport information

<b>14.1 UN number or ID number</b>	none
<b>14.2 UN proper shipping name</b>	not applicable
<b>14.3 Transport hazard class(es)</b>	Land transport (ADR/RID) No dangerous good in sense of these transport regulations. Inland waterway craft (ADN) No dangerous good in sense of these transport regulations. Sea transport (IMDG) No dangerous good in sense of these transport regulations. Air transport (ICAO-TI / IATA-DGR) No dangerous good in sense of these transport regulations.
<b>14.4 Packing group</b>	not applicable
<b>14.5 Environmental hazards</b>	none Marine pollutant : No
<b>14.6 Special precautions for user</b>	none
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	not applicable

## SECTION 15: Regulatory information

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

#### EU legislation

Regulation (EC) No. 2037/2000 concerning materials, which cause damage to the ozone layer  
not applicable

Regulation (EU) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals  
not applicable

Directive 96/59/EC (PCB-guideline)  
not applicable

Regulation (EC) No. 648/2004 [Detergents regulation]  
The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).  
Volatile organic compounds (VOC) content in percent by weight:: max. 0

Regulation (EC) No. 842/2006 on certain fluorinated greenhouse gases  
not applicable

Regulation (EC) No 2019/1021 [POP/PFOS-Regulation]  
The product is manufactured without the intended addition of organofluorine compounds for the purpose of increasing performance and therefore

does not contain any amount of organofluorine substances beyond the regional ubiquitous background pollution (e.g. in the drinking water used for production).

**Regulation (EC) No 2020/784 [PFOA-Regulation]**

The product is manufactured without the intended addition of organofluorine compounds for the purpose of increasing performance and therefore does not contain any amount of organofluorine substances beyond the regional ubiquitous background pollution (e.g. in the drinking water used for production).

**Regulation (EC) No 2021/1297 [C9-C14-PFCA-Regulation]**

The product is manufactured without the intended addition of organofluorine compounds for the purpose of increasing performance and therefore does not contain any amount of organofluorine substances beyond the regional ubiquitous background pollution (e.g. in the drinking water used for production).

**National regulations**

**Störfallverordnung (12. BlmschV)**

This product is not classified according to StörfallV.

**Water hazard class**

slightly hazardous to water (WGK 1)

Self-classification according to AwSV (mixture).

**Annex Chemikalien-Verbotsverordnung (ChemVerbotsV)**

not applicable

**15.2 Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.


**SECTION 16: Other information**

The product described in the Safety Data Sheet may only be used for its intended purpose. For exercises please observe the recommendations of the technical committee of BMU/LAMA. The details in this safety data sheet are based on today's stand of our knowledge and is applicable to the product with regard to appropriate safety precautions. They do not represent any guarantee of the properties of the product and do not establish any legal relationship.

Please refer to our internet website for more information. [www.sthamer.com](http://www.sthamer.com)

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

**Full text of Hazard- and EU Hazard-statements**

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