



MOUSSEAL®-A #2047

V-04 Print date: 28.10.21 Page 1 of 14

-	Product identifier MOUSSEAL [®] -A #204	7
	UFI: HRN5-70NN-800P-WAD6	
.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 sa	fety 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 Gö	ttingen
	Telephone	+49 (0)551/19240

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

11	

	×				
Signal word	The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].				
I low-and statements	12/2/2000 [021).			
Hazard statements		-			
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.				
Other hazards					

Endocrine disrupting properties

2.3





MOUSSEAL®-A #2047

V-04 Print date: 28.10.21 Page 2 of 14

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.

SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES

Concentration: 30 - 40% The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].

WATER

CAS No.: 7732-18-5 Concentration: 60 - 70% The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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

Full text of H- and EUH-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





MOUSSEAL®-A #2047

V-04 Print date: 28.10.21 Page 3 of 14

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 cleani

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





V-04 Print date: 28.10.21 Page 4 of 14

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.				
	No special life 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.				
.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				
	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				
.3	Specific end use(s)				
	Fire-extinguishing foams based on synthetic surfactants				
	Do not use for cleaning purposes.				
	Recommendation				
	Observe technical data sheet.				

S Dr. STHAMER HAMBURG



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

MOUSSEAL®-A #2047

V-04 Print date: 28.10.21 Page 5 of 14

Control parameters
Substance name:
CAS No.:
REACH No.:
Occupational exposure limit values:; Limit value type (country of origin):
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 DIN 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.

S Dr. STHAMER HAMBURG



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)/(EU) 2020/878 **MOUSSEAL®-A #2047** **V-04** Print date: 28.10.21 Page 6 of 14

	a)	Physical state			:	Liquid		
	b)	Colour			:	colourless / yellow		
	C)	Odour			:	Glycol, Ether, Surfactant		
	d)	Melting point/freezing	point		:	0°C	EN 1568:201	8
	e)	Melting point/freezing	point		:	> 100°C	DIN 51751	
	f)	Flammability			:	not applicable		
	g)	Lower and upper explo	osion limit/fla	ammability				
		limit			:	No data available		
	h)	Flash point			:	No flash point up to 100 °C.		
	i)	Ignition temperature in	n °C		:	not applicable		
	j)	Decomposition tempe	rature		:	No data available		
	k)	рН	at °C	20	:	8,0 - 9,0	DIN 19268	
	I)	Viscosity	at °C	20	:	< 15 mm ² /s	DIN 51562	Newton
		-	at °C	0	:	< 50 mm²/s	DIN 51562	Newton
	m)	Solubility			:	Water: completely miscible	OECD 105	
	n)	Partition coefficient n-	octanol/wate	r (log				
	,	value)		. •	:	not applicable		
	o)	Vapour pressure			:	No data available		
	p)	Density and/or relative	1					
		density	at °C	20	:	1,150 - 1,190 g/ml	DIN 12791	
	q)	Relative vapour densit	у		:	No data available		
	r)	particle characteristics	6		:	not applicable		
.2	Ot	her information						
	Inf	ormation with rega	rd to phys	ical haza	rd (classes		
	a)	Explosives			:	not applicable		
	• •							
	b)	Explosives			:	not applicable		
	b) c)	Explosives Aerosols			:	not applicable not applicable		
	ć	=			:			
	c)	Aerosols			:::::::::::::::::::::::::::::::::::::::	not applicable		
	c) d)	Aerosols Oxidising gas	1			not applicable not applicable		
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V-04 Print date: 28.10.21 Page 7 of 14

	g) Conductivity	: ~ 1000 μS/cm
		: ~ 1000 µS/cm : Skin corrosion/irritation: none
	h) Corrosiveness	
	n	Serious eye damage/irritation: none
	i) gas group	: not applicable
	j) Redox potential	: not applicable
	k) radical formation potential	: not applicable
	I) photocatalytic properties	: not applicable
	Additional hazards	
	Breathing is not possible whilst submerged in the foan	n Take care when spraving people!
	Dreathing is not possible whilst submerged in the roan	n. Take care when spraying people:
SEC	FION 10: Stability and reactivity	y
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	5

SECTION 11: Toxicological information

	Information on hazard classes as defined in Regulation (EC) No 1272/2008 Test was carried out with a similar preparation/mixture.					
a) Acute to	oxicity					
Acute oral to	oxicity					
Preparation r	elated information					
LD50	> 2000 mg/kg	The acute oral toxicity is corresponding to GHS-category 5.				
Species	Rat					
Method	Calculation method	l.				
Information c	n ingredients					
		HAZARDOUS SUBSTANCES: fied as dangerous according to Regulation (EC) No. 1272/2008 [CLP].				





MOUSSEAL®-A #2047

V-04 Print date: 28.10.21 Page 8 of 14

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

 non-irritant.

 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

<u>Preparation related information</u> There are no data available on the mixture itself. <u>Information on ingredients</u> INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:





MOUSSEAL®-A #2047

V-04 Print date: 28.10.21 Page 9 of 14

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





V-04 Print date: 28.10.21 Page 10 of 14

Acute (short-term)	-			
Preparation related i				
Effective dose	LC50	: > 100 < 1000	* mg/L	
Exposure time		:96 h	()) . .	
Species		: Leuciscus idu	(0)	
Method	-P	: Bridging prind	ciple "Substantially similar mixtures"	".
Information on ingre			OUS SUBSTANCES:	
No classific		bove-mentioned		
Acute (short-term) Preparation related i	-	ustacea		
Effective dose	EC50	: > 1000*	mg/L	
Exposure time		: 48 h	J-	
Species		: Daphnia mad	gna (Big water flea)	
Method			ciple "Substantially similar mixtures"	".
Information on ingre	dients		-	
Acute (short-term)	-		hazard class	
(Source: Source: Sourc	toxicity to al		bacteria	
Acute (short-term) Preparation related	toxicity to al	gae and cyanol		
Acute (short-term) Preparation related i Effective dose	toxicity to al	gae and cyanol : > 10 < 100*	bacteria mg/L	
Acute (short-term) Preparation related i Effective dose Exposure time	toxicity to al	gae and cyanol : > 10 < 100* : 72 h : Scenedesmu	bacteria mg/L	п.
Acute (short-term) Preparation related in Effective dose Exposure time Species Method Information on ingre	toxicity to algorithm information EC50 dients	gae and cyanol : > 10 < 100* : 72 h : Scenedesmu : Bridging princ	bacteria mg/L Is subspicatus ciple "Substantially similar mixtures"	".
Acute (short-term) Preparation related in Effective dose Exposure time Species Method Information on ingree INGREDIENTS NO	toxicity to algorithm EC50 dients T CLASSIFIE	gae and cyanol : > 10 < 100* : 72 h : Scenedesmu : Bridging princ D AS HAZARDO	bacteria mg/L is subspicatus ciple "Substantially similar mixtures" DUS SUBSTANCES:	п.
Acute (short-term) Preparation related in Effective dose Exposure time Species Method Information on ingre INGREDIENTS NO No classific	toxicity to algorithm EC50 dients T CLASSIFIE cation in the al	gae and cyanol : > 10 < 100* : 72 h : Scenedesmu : Bridging princ D AS HAZARDO bove-mentioned	bacteria mg/L is subspicatus ciple "Substantially similar mixtures" DUS SUBSTANCES:	" .
Acute (short-term) Preparation related in Effective dose Exposure time Species Method Information on ingre INGREDIENTS NO No classific	toxicity to algorithm EC50 dients T CLASSIFIE	gae and cyanol : > 10 < 100* : 72 h : Scenedesmu : Bridging princ D AS HAZARDO bove-mentioned	bacteria mg/L is subspicatus ciple "Substantially similar mixtures" DUS SUBSTANCES:	и.
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V-04 Print date: 28.10.21 Page 11 of 14

	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 oyxgen demand (COD)
	< 500000* mg*O2/L ► Concentration : 100% Method DIN EN 38409-H41-1
	Biochemical oxygen demand
	< 400000* mg*O2/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.
40.2	
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
1	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)
40 G	Endoaving discussion are next in a

12.6 Endocrine disrupting properties

Preparation related information

There are no data available on the mixture itself.





V-04 Print date: 28.10.21 Page 12 of 14

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

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

- 16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST
- 1610 aqueous liquid wastes destined for off-site treatment
- 161001* aqueous liquid wastes containing dangerous substances

Waste code packaging

 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
 packaging (including separately collected municipal packaging waste)
 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

14.1 UN number or ID number

none

14.2 UN proper shipping name

not applicable

14.3 Transport hazard class(es)

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.

14.4 Packing group

not applicable

14.5 Environmental hazards

none





V-04 Print date: 28.10.21 Page 13 of 14

Marine pollutant : No

14.6 Special precautions for user

none

14.7 Maritime transport in bulk according to IMO instruments

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 (EC) No. 304/2003 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

This product is not classified according to StörfallVO.

Water hazard class





V-04 Print date: 28.10.21 Page 14 of 14

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

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.

Relevant R-, H- and EUH-phrases (Number and full text)