**Rudolf Hensel GmbH** 



## 21039 Börnsen Created: 23.05.2012, Revision 25.04.2012 Version 01 Page 1 / 10 SECTION 1: Identification of the substance / preparation and of the company **Product identifier** 1.1 **HENSOTHERM 310 KS -OUTDOOR-**1.2 Relevant identified uses of the substance or mixture and uses advised against 1.2.1 Relevant uses Intumescent fire retardant coatings 1.2.2 Uses advised against None known. 1.3 Details of the supplier of the safety data sheet Company Rudolf Hensel GmbH Lauenburger Landstr. 11 21039 Börnsen / GERMANY Phone +49 (0)40-72 10 62 10 Fax +49 (0)40-72 10 62 52 Homepage www.rudolf-hensel.de E-mail info@rudolf-hensel.de Address enquiries to **Technical information** info@rudolf-hensel.de Safety Data Sheet sdb@chemiebuero.de 1.4 Emergency phone +49 (0)40-72 10 62 10 (7:00 - 17:00) 0172 4115390 (17:00 - 07:00) Company **SECTION 2: Hazards identification** 2.1 Classification of the substance or mixture 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP] see SECTION 16

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

Hazard symbols



Harmful

R-phrases

R 10: Flammable. R 20/21: Harmful by inhalation and in contact with skin. R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 2.2 Label elements

Labelling according to Regulation 67/548/EEC or 1999/45/EC Hazard symbols

	Harmful
Contains:	Xylene, mixture of isomers
R-phrases	R 10: Flammable. R 20/21: Harmful by inhalation and in contact with skin. R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases	<ul> <li>S 9: Keep container in a well-ventilated place.</li> <li>S 24: Avoid contact with skin.</li> <li>S 36/37: Wear suitable protective clothing and gloves.</li> <li>S 61: Avoid release to the environment. Refer to special instructions, safety data sheets.</li> </ul>
Special labelling	Contains: EA2854. May produce an allergic reaction.
2004/42/CE	< 500 g/I II A i SB One-pack performance coatings (max. 500 g/l)



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### 2.3 Other hazards

Environmental hazards	Does not contain any PBT or vPvB substances.
Other hazards	Further hazards were not determined with the current level of knowledge.

## **SECTION 3: Composition / Information on ingredients**

### 3.1 Product-type:

The product is a mixture.

	Range [%]	Substance	
	12,5 - <20	12,5 - <20 Xylene, mixture of isomers	
	CAS: 1330-20-7, E		EINECS/ELINCS: 215-535-7, EU-INDEX: 601-022-00-9
		GHS/CLP: Flam. L	.iq. 3 - H226 - Acute Tox. 4 - H312 H332 - Skin Irrit. 2 - H315
	EEC: Xn, R 10-20		/21-38
	2,5 - <10	Hydrocarbons, C9,	, aromatics
		CAS: 64742-95-6,	EINECS/ELINCS: 918-668-5, EU-INDEX: 649-356-00-4, ECB-Nr.: 01-2119455851-35-xxxx
		GHS/CLP: Flam. L STOT SE 3 - H336	iq. 3 - H226 - STOT SE 3 - H335 - Aquatic Chronic 2 - H411 - Asp. Tox 1 - H304 EUH066 ک
		EEC: Xn-N, R 10-3	37-51/53-65-66-67
	1 - <10	Ethylbenzene	
		CAS: 100-41-4, EI	NECS/ELINCS: 202-849-4, EU-INDEX: 601-023-00-4
			.iq. 2 - H225 - Acute Tox. 4 - H332
		EEC: F-Xn, R 11-2	20
	Commont on comm	anont norto	Substances of Vary High Concern SV/HC, substances are not contained or are below 0.1%
=C	Comment on comp	•	For the wording of the listed risk phrases refer to SECTION 16.
	TION 4: First aid r	neasures	
EC <sup>.</sup>	TION 4: First aid r Description of fir	neasures st aid measures	For the wording of the listed risk phrases refer to SECTION 16.
	TION 4: First aid r	neasures st aid measures	For the wording of the listed risk phrases refer to SECTION 16.
	TION 4: First aid r Description of fir	neasures st aid measures	For the wording of the listed risk phrases refer to SECTION 16.
	TION 4: First aid r Description of fir General informatio	neasures st aid measures	For the wording of the listed risk phrases refer to SECTION 16.  S Remove contaminated soaked clothing immediately and dispose of safely.
	TION 4: First aid r Description of fir General informatio	neasures st aid measures	For the wording of the listed risk phrases refer to SECTION 16.
	TION 4: First aid r Description of fir General informatio Inhalation	neasures st aid measures	For the wording of the listed risk phrases refer to SECTION 16.
	TION 4: First aid r Description of fir General informatio Inhalation Skin contact	neasures st aid measures	For the wording of the listed risk phrases refer to SECTION 16.  Remove contaminated soaked clothing immediately and dispose of safely.  Remove the victim into fresh air and keep him calm. Seek medical advice immediately. In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
	TION 4: First aid r Description of fir General informatio Inhalation Skin contact Eye contact	neasures st aid measures	For the wording of the listed risk phrases refer to SECTION 16.  Remove contaminated soaked clothing immediately and dispose of safely.  Remove the victim into fresh air and keep him calm. Seek medical advice immediately. In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists. In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
	TION 4: First aid r Description of fir General informatio Inhalation Skin contact	neasures st aid measures	For the wording of the listed risk phrases refer to SECTION 16.  Remove contaminated soaked clothing immediately and dispose of safely.  Remove the victim into fresh air and keep him calm. Seek medical advice immediately. In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists. In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice. Consult a doctor immediately.
	TION 4: First aid r Description of fir General informatio Inhalation Skin contact Eye contact	neasures st aid measures	For the wording of the listed risk phrases refer to SECTION 16.  Remove contaminated soaked clothing immediately and dispose of safely.  Remove the victim into fresh air and keep him calm. Seek medical advice immediately. In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists. In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice. Consult a doctor immediately. Do not induce vomiting.
	TION 4: First aid r Description of fir General informatio Inhalation Skin contact Eye contact	neasures st aid measures	For the wording of the listed risk phrases refer to SECTION 16.  Remove contaminated soaked clothing immediately and dispose of safely.  Remove the victim into fresh air and keep him calm. Seek medical advice immediately. In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists. In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice. Consult a doctor immediately.
	TION 4: First aid r Description of fir General informatio Inhalation Skin contact Eye contact Ingestion	neasures rst aid measures n	For the wording of the listed risk phrases refer to SECTION 16.  Remove contaminated soaked clothing immediately and dispose of safely.  Remove the victim into fresh air and keep him calm. Seek medical advice immediately. In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists. In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice. Consult a doctor immediately. Do not induce vomiting.

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

Treat symptomatically.

## 5.1 Extinguishing media Suitable extinguishing media Dry powder. Alcohol-resistant foam. Extinguishing media that must not be used

**SECTION 5: Fire-fighting measures** 

## 5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products. Carbon monoxide (CO) Not combusted hydrocarbons.



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5.3	Advice for firefighters			
	U U	Use self-contained breathing apparatus.		
	Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.			dance within
SEC	CTION 6: Accidental release meas	ures		
6.1	Personal precautions, protective	e equipment and emergency procedures		
		High risk of slipping due to leakage/spillage of product.		
6.2	Environmental precautions			
		Prevent spread over a wide area (e.g. by containment or oil ba	arriers).	
		Do not discharge into the drains/surface waters/groundwater.		
6.3	Methods and material for contai	nment and cleaning up		
		Take up mechanically.		
		Take up residues with absorbent material (e.g. sand, sawdust diatomaceous earth).	, generalpurpose	binder,
		Dispose of absorbed material in accordance within the regulat	tions.	
6.4	Reference to other sections			
		See SECTION 8+13		
SEC	TION 7: Handling and storage			
7.1	Precautions for safe handling			
		Provide suitable vacuuming at the processing area.		
		Keep away from all sources of ignition - Refrain from smoking	J.	
		Take precautionary measures against static discharges.		
7.2	Conditions for safe storage incl	uding any incompatibilities		
1.2	2 Conditions for safe storage, including any incompatibilities Keep only in original container.			
		Do not store together with oxidizing agents.		
		Keep container tightly closed.		
		Keep in a cool place. Store in a dry place. Protect from heat/overheating and from sun.		
7.3	Specific end use(s)			
	,	See product use, SECTION 1.2		



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SEC	CTION 8: Exposure controls / personal protection		
8.1	Control parameters		

## Ingredients with occupationa exposure limits to be monitored (GB) Range [%] Substance 2,5 - <10 Hydrocarbons, C9, aromatics CAS: 64742-95-6, EINECS/ELINCS: 918-668-5, EU-INDEX: 649-356-00-4, ECB-Nr.: 01-2119455851-35-xxxx Long-term exposure: 100 mg/m<sup>3</sup> 12,5 - <20 Xylene, mixture of isomers CAS: 1330-20-7, EINECS/ELINCS: 215-535-7, EU-INDEX: 601-022-00-9 Long-term exposure: 50 ppm, 220 mg/m3, Sk, BMGV Short-term exposure (15-minute): 100 ppm, 441 mg/m<sup>3</sup> 1 - <2,5 Aluminiumsilikat CAS: 1332-58-7 Long-term exposure: 2 mg/m<sup>3</sup>, respirable dust 1 - <10 Titanium dioxide CAS: 13463-67-7, EINECS/ELINCS: 236-675-5 Long-term exposure: 4 mg/m<sup>3</sup>, respirable; total inhalable: TWA=10 mg/m<sup>3</sup> 1 - <10 Pentaerythritol CAS: 115-77-5, EINECS/ELINCS: 204-104-9 Long-term exposure: 10 mg/m<sup>3</sup>, inhalable dust, respirable dust: TWA=4 mg/m<sup>3</sup> Short-term exposure (15-minute): 20 mg/m<sup>3</sup> 1 - <10 Ethylbenzene CAS: 100-41-4, EINECS/ELINCS: 202-849-4, EU-INDEX: 601-023-00-4 Long-term exposure: 100 ppm, 441 mg/m<sup>3</sup>, Sk Short-term exposure (15-minute): 125 ppm, 552 mg/m<sup>3</sup>

## Ingredients with occupational exposure limits to be monitored (EU)

exposure limits to be monitored (EO)		
Range [%]	Substance / EC LIMIT VALUES	
12,5 - <20	Xylene, mixture of isomers	
	CAS: 1330-20-7, EINECS/ELINCS: 215-535-7, EU-INDEX: 601-022-00-9	
	Eight hours: 50 ppm, 221 mg/m <sup>3</sup> , H	
	Short-term (15-minute): 100 ppm, 442 mg/m <sup>3</sup>	
1 - <10	Ethylbenzene	
	CAS: 100-41-4, EINECS/ELINCS: 202-849-4, EU-INDEX: 601-023-00-4	
	Eight hours: 100 ppm, 442 mg/m <sup>3</sup> , H	
	Short-term (15-minute): 200 ppm, 884 mg/m <sup>3</sup>	

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2	Exposure controls			
	Additional advice on system design	Ensure adequate ventilation on workstation.		
	Eye protection	Safety glasses.		
	Hand protection	Butyl rubber, >480 min (EN 374). The details concerned are recommendations. Please conta information.	act the glove supplier	for further
	Skin protection	light protective clothing		
	Other	Avoid contact with eyes and skin. Do not breathe vapour/spray. Personal protective equipment should be selected specific depending on concentration and quantity handled. The res chemicals should be ascertained with the respective suppl	istance of these equip	
		Wash hands before breaks and after work. Use barrier skin cream. Do not eat, drink, smoke or take drugs at work.		
	Respiratory protection	Breathing apparatus in the event of aerosol or mist formati Short term: filter apparatus, filter P2.	on.	
	Thermal hazards	not applicable		
	Delimitation and monitoring of the environmental exposition	See SECTION 6+7.		

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

## 9.1 Information on basic physical and chemical properties

Form	pasty
Color	white
Odor	characteristic
Odour threshold	not determined
pH-value	not determined
pH-value [1%]	not determined
Boiling point [°C]	not determined
Flash point [°C]	26
Flammability [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	~ 1,32
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	insoluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	8000 - 12000 mPa.s (20°C)
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	not determined
Autoignition temperature [°C]	not applicable
Decomposition temperature	not determined

### 9.2 Other information

none

## **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).



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#### 10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

#### 10.4 Conditions to avoid

See SECTION 7.2.

#### 10.5 Incompatible materials

Strong oxidizing agent.

#### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute toxicity

Range [%]	Substance
1 - <10	Ethylbenzene, CAS: 100-41-4
	LD50, oral, Rat: 3500 mg/kg (IUCLID).
	LC50, inhalative, Rat: 17,2 mg/l/4h (IUCLID).
	LD50, dermal, Rabbit: 15354 mg/kg (IUCLID).
2,5 - <10	Hydrocarbons, C9, aromatics, CAS: 64742-95-6
	LD50, dermal, Rabbit: >2000 mg/kg (Lit.).
	LD50, oral, Rat: >2000 mg/kg (Lit.).
12,5 - <20	Xylene, mixture of isomers, CAS: 1330-20-7
	LD50, dermal, Rabbit: 4350 mg/kg (IUCLID).
	LC50, inhalative, Rat: 28 mg/l/4h (IUCLID).
	LD50, oral, Rat: 2840 mg/kg (Lit.).

Serious eye damage/irritation	not determined
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	not determined
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	not determined
General remarks	
	Toxicological data of complete product are not available. The product was classified on the basis of the calculation procedure of the preparation

directive.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.



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

#### 12.1 Toxicity

Range [%]	Substance
1 - <10	Ethylbenzene, CAS: 100-41-4
	EC50, Bacteria: 9,68 mg/l/30 min. (Microtox Test).
	IC50, (72h), Algae: 4,6 mg/l (IUCLID).
	EC50, (48h), Daphnia magna: 2,9 mg/l (ECOTOX Database).
	LC50, (96h), Oncorhynchus mykiss: 4,2 mg/l (OECD 203).
2,5 - <10	Hydrocarbons, C9, aromatics, CAS: 64742-95-6
	EL50, (48h), Daphnia magna: 3,2 mg/l (Lit.).
	LL50, (96h), Oncorhynchus mykiss: 9,2 mg/l (Lit.).
	EL50, (72h), Pseudokirchneriella subcapitata: 2,6 - 2,9 mg/l (Lit.).
12,5 - <20	Xylene, mixture of isomers, CAS: 1330-20-7
	EC50, (24h), Daphnia magna: 75,5 mg/l (ECOTOX Database).
	LC50, (96h), Oncorhynchus mykiss: 8,2 mg/l (ECOTOX Database).

#### 12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

#### 12.3 Bioaccumulative potential

not determined

#### 12.4 Mobility in soil

not determined

#### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

#### 12.6 Other adverse effects

The product was classified on the basis of the calculation procedure of the preparation directive. Ecological data of complete product are not available. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

#### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Waste no. (recommended)	Coordinate disposal with the authorities if necessary. 080111*
Contaminated packaging	
	Packaging that cannot be cleaned should be disposed of as for product. Uncontaminated packaging may be taken for recycling.
Waste no. (recommended)	150110* 150102 150104

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 SECTION 14: Transport information
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## 14.1 UN number

See SECTION14.2 in accordance with UN shipping name

14.2	UN proper shipping name Transport by land according to ADR/RID	UN 1263 Paint (No dangerous goods, according ADR 2.2.3.1.5 to max. 450 I) III
	- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 3 (D/E)
	Inland navigation (ADN)	UN 1263 Paint (No dangerous goods, according ADR 2.2.3.1.5 to max. 450 I) III
	Marine transport in accordance with IMDG	UN 1263 Paint (No dangerous goods, according IMDG 2.3.2.5 to max. 30 I (see 5.4.1.5.10) - "transport in compliance with 2.3.2.5 of the IDMG Code") 3 III
	- EMS	F-E, S-E
	- Label	<b></b>
	- IMDG LQ	51
	Air transport in accordance with IATA	UN 1263 Paint 3 III
	- Label	

## 14.3 Transport hazard class(es)

See SECTION14.2 in accordance with UN shipping name

## 14.4 Packing group

See SECTION14.2 in accordance with UN shipping name

## 14.5 Environmental hazards

See SECTION14.2 in accordance with UN shipping name

## 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

## 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

## SECTION 15: Regulatory information

15.1 Safety, health and environmenta	Safety, health and environmental regulations/legislation specific for the substance or mixture		
EEC-REGULATIONS	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC		
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2012).		
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits with amendments October 2007. CHIP 3/ CHIP 4		
15.2 Chemical safety assessment			

## not applicable



#### **Rudolf Hensel GmbH** 21039 Börnsen Created: 23.05.2012, Revision 25.04.2012 Version 01 Page 9 / 10 SECTION 16: Other informations 16.1 Classification according to Regulation (EC) No 1272/2008 [CLP] Hazard pictograms Signal word WARNING Flam. Lig. 3 - H226 Flammable liquid and vapour. Acute Tox. 4 - H312 H332 Harmful in contact with skin or if inhaled. Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects. **Classification procedure** Classification according to conversion table Annex VII 1272/2008/EC 16.2 R-phrases (SECTION 03) R 10: Flammable. R 37: Irritating to respiratory system. R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R 65: Harmful - may cause lung damage if swallowed. R 66: Repeated exposure may cause skin dryness or cracking. R 67: Vapours may cause drowsiness and dizziness. R 20/21: Harmful by inhalation and in contact with skin. R 38: Irritating to skin. R 11: Highly flammable. R 20: Harmful by inhalation. 16.3 Hazard statements (SECTION 03) H226 Flammable liquid and vapour. H335 May cause respiratory irritation. H411 Toxic to aquatic life with long lasting effects. H304 May be fatal if swallowed and enters airways. EUH066 Repeated exposure may cause skin dryness or cracking. H336 May cause drowsiness or dizziness. H312 H332 Harmful in contact with skin or if inhaled. H315 Causes skin irritation. H225 Highly flammable liquid and vapour. H332 Harmful if inhaled. 16.4 Abbreviations and acronyms: ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging DMEL = Derived Minimum Effect Level DNEL = Derived No Effect Level EC50 = Median effective concentration ECB = European Chemicals Bureau EEC = European Economic Community EINECS = European Inventory of Existing Commercial Chemical Substances ELINCS = European List of Notified Chemical Substances GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk IC50 = Inhibition concentration, 50% IMDG = International Maritime Code for Dangerous Goods IUCLID = International Uniform ChemicaL Information Database LC50 = Lethal concentration, 50% LD50 = Median lethal dose MARPOL = International Convention for the Prevention of Marine Pollution from Ships PBT = Persistent, Bioaccumulative and Toxic substance PNEC = Predicted No-Effect Concentration REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals TLV®/TWA = Threshold limit value - time-weighted average TLV®STEL = Threshold limit value - short-time exposure limit VOC = Volatile Organic Compounds vPvB = very Persistent and very Bioaccumulative

Modified position

none

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## 16.5 Other informations Observe employment restrictions for yes people

VOC (1999/13/CE)

not determined

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