### **RENITHERM® PMA 600 HD**



## Rudolf Hensel GmbH 21039 Börnsen

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

#### 1.1 Product identifier

#### **RENITHERM® PMA 600 HD**

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

1.2.1 Relevant uses

Fire retardant coating

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@renitherm.com

Safety Data Sheet sdb@chemiebuero.de (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

1.4 Emergency telephone number

**Company** +49 (0)40-72 10 62 10 (7:00 - 17:00) 0172 4115390 (17:00 - 07:00)

#### SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Carc. 2: H351 Suspected of causing cancer. Repr. 2: H361f Suspected of damaging fertility.

STOT RE 2: H373 May cause damage to organs (urinary tract) through prolonged or repeated

exposure.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No. 1272/2008

(CLP).

**Hazard pictograms** 

Signal word WARNING
Contains: Melamine

Hazard statements H351 Suspected of causing cancer.

H361f Suspected of damaging fertility.

H373 May cause damage to organs (urinary tract) through prolonged or repeated exposure.

**Precautionary statements** P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe vapours / spray.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P308+P313 IF exposed or concerned: Get medical advice / attention.

P501 Dispose of contents/container in accordance with local/national regulation.

**Special labelling** Product treated with preservatives CMIT/MIT (3:1).

Contains: 2-Methyl-2H-isothiazolin-3-one, Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one. EUH208 May produce an allergic reaction.

2004/42/CE 0 g/L II A i WB One-pack performance coatings (max. 140 g/l)

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### 2.3 Other hazards

Human health dangers It is essential for pregnant women to avoid inhaling the product and not to let it come in

contact with the skin.

**Environmental hazards**Does not contain any PBT or vPvB substances.

Other hazards Contains no ingredients with endocrine-disrupting properties.

Further hazards were not determined with the current level of knowledge.

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

### 3.1 Substances

not applicable

### 3.2 Mixtures

### The product is a mixture.

Range [%]	Substance
10 - <15	Melamine
	CAS: 108-78-1, EINECS/ELINCS: 203-615-4, EU-INDEX: 613-345-00-2, Reg-No.: 01-2119485947-16-XXXX
	GHS/CLP: Carc. 2: H351 - Repr. 2: H361f - STOT RE 2: H373
0,00015 - <0,0015	2-Methyl-2H-isothiazolin-3-one
	CAS: 2682-20-4, EINECS/ELINCS: 220-239-6, EU-INDEX: 613-326-00-9, Reg-No.: 01-2120764690-50-XXXX
	GHS/CLP: Acute Tox. 3: H301 H311 - Acute Tox. 2: H330 - Skin Corr. 1B: H314 - Eye Dam. 1: H318 - Skin Sens. 1A: H317 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 - EUH071, M-Factor (acute): 10, M-Factor (chronic): 1
	SCL [%]: >=0,0015: Skin Sens. 1: H317
0,00015 - <0,0015	Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one
	CAS: 55965-84-9, EINECS/ELINCS: 911-418-6, Reg-No.: 01-2120764691-48-XXXX
	GHS/CLP: Acute Tox. 3: H301 - Acute Tox. 2: H310 H330 - Skin Corr. 1C: H314 - Eye Dam. 1: H318 - Skin Sens. 1A: H317 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 - EUH071, M-Factor (acute): 100, M-Factor (chronic): 100
	SCL [%]: >= 0,6: Eye Dam. 1: H318, 0,06 - <0,6: Eye Irrit. 2: H319, >= 0,6: Skin Corr. 1A: H314, 0,06 - <0,6: Skin Irrit. 2: H315, >= 0,0015: Skin Sens. 1: H317

Comment on component parts For full text of H-statements: see SECTION 16.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General information Take off contaminated clothing and wash before reuse.

**Inhalation** Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

**Skin contact** When in contact with the skin, clean with soap and water.

Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

**Ingestion** Get medical advice.

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

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

Allergic reactions Irritant effects

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

Treat symptomatically.

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### SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Product itself is non-combustible. Fire extinguishing method of surrounding areas must be

considered.

Extinguishing media that must not

be used

Full water jet.

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

Risk of formation of toxic pyrolysis products.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

### **SECTION 6: Accidental release measures**

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

Ensure adequate ventilation.

High risk of slipping due to leakage/spillage of product.

Use personal protective equipment (protective gloves, safety glasses, protective clothing).

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

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

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous

earth).

Dispose of absorbed material in accordance within the regulations.

## 6.4 Reference to other sections

See SECTION 8+13

## **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

The normal safety precautions for handling chemicals must be observed.

Use only in well-ventilated areas.

Provide suitable vacuuming at the processing area.

Do not eat, drink, smoke or take drugs at work.

After worktime and before work breaks the affected skin areas must be thoroughly cleaned.

Use barrier skin cream.

Take off contaminated clothing and wash before reuse.

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

Keep only in original container. Prevent penetration into the ground.

Do not store together with food and animal food/diet.

Keep container tightly closed. Protect from heat/overheating.

Keep in a cool place. Store in a dry place.

Storage class (TRGS 510) Storage class 10 (VCI)

### 7.3 Specific end use(s)

See product use, SECTION 1.2

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## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

Ingredients with occupational exposure limits to be monitored DE (TRGS 900)

not relevant

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

### **DNEL**

Substance
Melamine, CAS: 108-78-1
Industrial, dermal, Acute - systemic effects, 117 mg/kg
Industrial, inhalative, Acute - systemic effects, 82,3 mg/m³
Industrial, inhalative, Long-term - systemic effects, 8,3 mg/m³
Industrial, dermal, Long-term - systemic effects, 11,8 mg/kg
general population, inhalative, Long-term - systemic effects, 1,5 mg/m³
general population, dermal, Long-term - systemic effects, 4,2 mg/kg
general population, oral, Long-term - systemic effects, 0,42 mg/kg
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
Industrial, inhalative, Long-term - local effects, 21 μg/m³
Industrial, inhalative, Acute - local effects, 43 μg/m³
general population, oral, Long-term - systemic effects, 27 μg/kg bw/day
general population, oral, Acute - systemic effects, 53 μg/kg bw/day
general population, inhalative, Long-term - local effects, 21 μg/m³
general population, inhalative, Acute - local effects, 43 μg/m³
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
Industrial, inhalative, Long-term - local effects, 0,02 mg/m³
Industrial, inhalative, Acute - local effects, 0,04 mg/m³
general population, inhalative, Acute - local effects, 0,04 mg/m³
general population, inhalative, Long-term - local effects, 0,02 mg/m³
general population, oral, Long-term - systemic effects, 0,09 mg/kg bw/day
general population, oral, Acute - systemic effects, 0,11 mg/kg bw/day

### **PNEC**

Melamine, CAS: 108-78-1
freshwater, 0,51 mg/L
seawater, 0,051 mg/L
sediment (freshwater), 2,524 mg/kg sediment dw
sediment (seawater), 0,252 mg/kg sediment dw
soil, 0,206 mg/kg soil dw
sewage treatment plants (STP), 200 mg/L
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
freshwater, 3,39 µg/L
seawater, 3,39 µg/L
sewage treatment plants (STP), 230 µg/L
soil, 47 µg/kg soil dw
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
freshwater, 3,39 µg/L
seawater, 3,39 µg/L
sewage treatment plants (STP), 0,23 mg/L
sediment (freshwater), 0,027 mg/kg sediment dw
sediment (seawater), 0,027 mg/kg sediment dw
soil, 0,01 mg/kg soil dw

Substance

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#### 8.2 **Exposure controls**

Additional advice on system design Ensure adequate ventilation on workstation.

Measurement methods for taking workplace measurements must meet the performance

requirements of DIN EN 482. For example, recommendations are given in the IFA's list of

hazardous substances.

Eye protection Safety glasses. (EN 166:2001)

Hand protection 0,7 mm Butyl rubber, >480 min (EN 374-1/-2/-3).

The details concerned are recommendations. Please contact the glove supplier for further

Skin protection Protective clothing (EN 340) Other Avoid contact with eyes and skin.

Do not inhale aerosols.

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Avoid contact during pregnancy/ while nursing.

Respiratory protection In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear

appropriate respiratory protection.

Short term: filter apparatus, filter P2. (DIN EN 143)

Thermal hazards not applicable

Delimitation and monitoring of the environmental exposition

Protect the environment by applying appropriate control measures to prevent or limit

emissions.

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

### Information on basic physical and chemical properties

Physical state liquid **Form** pasty Color white Odor characteristic

Odour threshold not required pH-value 7.8 - 8.6pH-value [1%] not determined Boiling point or initial boiling point not determined

and boiling range [°C]

Flash point [°C]

**Flammability** 

not applicable not applicable not applicable

Lower explosion limit Upper explosion limit not applicable

**Oxidising properties** 

Vapour pressure/gas pressure [kPa] not determined

Density [g/cm<sup>3</sup>] 1,3 - 1,4 (20 °C / 68,0 °F)

Relative density not determined Bulk density [kg/m³] not applicable Solubility in water miscible Solubility other solvents not relevant Partition coefficient n-octanol/water not determined

(log value)

9000 - 14000 mPa.s (20°C) Kinematic viscosity

Relative vapour density not relevant Melting point [°C] not determined Auto-ignition temperature [°C] not applicable Decomposition temperature [°C] not determined Particle characteristics not relevant

### 9.2 Other information

none

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

The product is stable under standard conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known.

### 10.4 Conditions to avoid

See SECTION 7.2.

### 10.5 Incompatible materials

not relevant

## 10.6 Hazardous decomposition products

No hazardous decomposition products known.

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### SECTION 11: Toxicological information

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

Acute oral toxicity

Based on available data, the classification criteria are not met.

Product

ATE-mix, oral, > 2000 mg/kg

Substance

Melamine, CAS: 108-78-1

LD50, oral, Rat (female), 3828 mg/kg

LD50, oral, Rat (male), 3161 mg/kg

2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4

LD50, oral, Rat, 120 mg/kg bw

Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9

LD50, oral, Rat, 64 mg/kg

### Acute dermal toxicity

Based on available data, the classification criteria are not met.

Product

ATE-mix, dermal, > 2000 mg/kg

Substance

Melamine, CAS: 108-78-1

LD50, dermal, Rat, > 2000 mg/kg

2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4

LD50, dermal, Rat, 242 mg/kg bw

Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9

LD50, dermal, Rabbit, 87 mg/kg

## Acute inhalational toxicity

Based on available data, the classification criteria are not met.

Product

ATE-mix, inhalativ (mist), > 5 mg/l 4h

Substance

Melamine, CAS: 108-78-1

LC50, inhalative, Rat, 5,19 mg/l, OECD 403, 4h

2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4

LC50, inhalative, Rat, 340 µg/m<sup>3</sup>

Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9

LC50, inhalative, Rat, 0,33 mg/L 4h

### Serious eye damage/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance

Melamine, CAS: 108-78-1

Eye, non-irritating

2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4

Eye, Causes serious eye damage.

Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9

Eye, Rabbit, In vivo study, corrosive

## Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance

Melamine, CAS: 108-78-1

Rabbit, OECD 404, non-irritating

2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4

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rhh00235 DE

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Rabbit, in vivo, corrosive

Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9

dermal, Rabbit, OECD 404, corrosive

Respiratory or skin sensitisation

Based on the available information, the classification criteria are not fulfilled. May cause an allergic skin reaction.

Substance

Melamine, CAS: 108-78-1

Guinea pig, OECD 406, non-sensitizing

inhalative, non-sensitizing

2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4

dermal, Guinea pig, OECD 429, sensitising

Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9

dermal, In vivo study, sensitising

Specific target organ toxicity — single exposure

Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity — repeated exposure

May cause damage to organs (urinary tract) through prolonged or repeated exposure.

Substance

Melamine, CAS: 108-78-1

NOAEL, oral, Rat, 72 mg/kg bw/day (subchronic), adverse effect observed

2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4

NOAEL, oral, Rat, 19 mg/kg bw/day, no adverse effect observed

Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9

NOAEL, oral, Dog, 22 mg/kg bw/day, OECD 409, The effects observed are not sufficient for classification.

NOAEL, dermal, Rat, 0,1 mg/kg bw/day, In vivo study, The effects observed are not sufficient for classification.

NOAEC, inhalative, Rat, 2,36 mg/m³, OECD 413, The effects observed are not sufficient for classification.

### Mutagenicity

Does not contain a relevant substance that meets the classification criteria.

Substance

Melamine, CAS: 108-78-1

in vitro, negativ

in vivo, negativ

2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4

in vivo, negativ

in vitro, OECD 471, negativ

Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9

In vitro study, no adverse effect observed

### Reproduction toxicity

Suspected of damaging fertility.

- Fertility

Substance

Melamine, CAS: 108-78-1

NOAEL, oral, Rat, 89 mg/kg bw/day (subchronic), adverse effect observed

2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4

NOAEL, oral, Rat, 69 mg/kg bw/day, no adverse effect observed

Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9

NOAEL, oral, Rat, 22,7 mg/kg bw/day, OECD 416, no adverse effect observed

### - Development

Substance

Melamine, CAS: 108-78-1

NOAEL, oral, Rabbit, 150 mg/kg bw/day (subacute), no adverse effect observed

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2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4

NOAEL, oral, Rabbit, 30 mg/kg bw/day (chronic), no adverse effect observed

Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9

NOAEL, oral, Rat, 100 mg/kg bw/day, OECD 415, no adverse effect observed, Effect on developmental toxicity,

Carcinogenicity

Suspected of causing cancer.

Toxicological data of complete product are not available.

Substance

Melamine, CAS: 108-78-1

LOAEL, oral, Rat, 126 mg/kg bw/day (chronic), adverse effect observed

2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4

NOAEL, dermal, mouse, 400 mg/kg bw/day (chronic), no adverse effect observed

NOAEL, oral, Rat, 3,1 mg/kg bw/day, no adverse effect observed

Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9

NOAEL, oral, Rat, 17,2 mg/kg bw/day, OECD 453, no adverse effect observed

Aspiration hazard

Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting

properties

Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information none

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

## 12.1 Toxicity

Substance
Melamine, CAS: 108-78-1
LC50, (96h), Oncorhynchus kisutch, > 3000 mg/L
EC50, (48h), Daphnia magna, 200 mg/L EPA OPP 72-2
NOFC. (21d). Daphnia magna. >= 11 mg/l. OFCD 211

ErC50, (96h), Pseudokirchneriella subcapitata, 325 mg/L PRO/FT Algae-AC090-6

2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4

LC50, (96h), Fish, 4,77 mg/L

EC50, (48h), Invertebrates, 934 µg/L

EC50, (96h), Algae, 72 µg/L

Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9

LC50, (96h), Oncorhynchus mykiss, 0,22 mg/L OECD 203

EC50, (48h), Skeletonema costatum, 0,0052 mg/L (ISO 10253) RAC

EC50, (48h), Daphnia magna, 0,1 mg/L OECD 202

EC50, (72h), Pseudokirchneriella subcapitata, 0,048 mg/L OECD 201

NOEC, (48h), Skeletonema costatum, 0,00064 mg/L (ISO 10253) RAC

NOEC, (21d), Daphnia magna, 0,004 mg/L OECD 211

NOEC, (28d), Oncorhynchus mykiss, 0,098 mg/L OECD 215

NOEC, (72h), Pseudokirchneriella subcapitata, 0,0012 mg/L OECD 201

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#### 12.2 Persistence and degradability

Behaviour in environment

not determined

compartments

Behaviour in sewage plant not determined Biological degradability not determined

Substance

2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4

The product is not readily biodegradable.

### 12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

Substance

2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4

BCF, 3,16

log Kow, <= 0,32, OECD 117

#### 12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

#### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

#### 12.7 Other adverse effects

None known.

## **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

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.

## **Product**

Coordinate disposal with the authorities if necessary.

Dispose of as hazardous waste.

Waste no. (recommended) 080119\*

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\* packaging containing residues of or contaminated by hazardous substances

150102

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### SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with

**IMDG** 

not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to

NO DANGEROUS GOODS

ADR/RID

Inland navigation (ADN)

NO DANGEROUS GOODS

**IMDG** 

Marine transport in accordance with NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with

not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with

not applicable

**IMDG** 

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to

no

ADR/RID

Inland navigation (ADN) no

Marine transport in accordance with no

**IMDG** 

Air transport in accordance with IATA no

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#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

### 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

**EEC-REGULATIONS** 2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006

(REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131;

(EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707

- Comment on component parts SVHC (Candidate List of Substances of Very High Concern for authorisation) ≥ 0.1%

CAS 108-78-1 - Melamine

- Annex XIV (REACH) According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain

any substances ≥ 0.1% that are subject to authorisation.

- Annex XVII (REACH) According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1%

of substances with the following restrictions. 75

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the

following restrictions. 3

TRANSPORT-REGULATIONS ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)

NATIONAL REGULATIONS (DE): Hazardous Substances Ordinance - GefStoffV 21.07.2021; Detergent and Cleaning Agents

Act - WRMG; Federal Water Act - WHG; Technical Rule for Hazardous Substances - TRGS:

200, 220, 615, 900, 905.

- Water hazard class 2, conf. AwSV, 18.04.2017

- Decree for case of interference,

observe limits

- Class. according to TA-Luft not applicable

- Storage class (TRGS 510) Storage class 10 (VCI)

- Observe employment restrictions

for people

Observe employment restrictions for mothers-to-be and nursing mothers. Observe

employment restrictions for young people.

- VOC (2010/75/CE) 0 %

- Other regulations TRGS 510: Storage of hazardous substances in non-stationary containers

### 15.2 Chemical safety assessment

not applicable

### **SECTION 16: Other information**

#### 16.1 Hazard statements (SECTION 3)

H310+H330 Fatal in contact with skin or if inhaled.

H301 Toxic if swallowed.

EUH071 Corrosive to the respiratory tract.

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H314 Causes severe skin burns and eye damage.

H330 Fatal if inhaled.

H301+H311 Toxic if swallowed or in contact with skin.

H373 May cause damage to organs through prolonged or repeated exposure.

H361f Suspected of damaging fertility. H351 Suspected of causing cancer.

### **RENITHERM® PMA 600 HD**



## **Rudolf Hensel GmbH** 21039 Börnsen

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#### 16.2 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

ATE = acute toxicity estimate 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

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

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

IVIS = In vitro irritation score LC50 = Lethal concentration, 50% LD50 = Median lethal dose LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading LQ = Limited Quantities

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

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

## 16.3 Other information

Classification procedure Carc. 2: H351 Suspected of causing cancer. (Calculation method)

Repr. 2: H361f Suspected of damaging fertility. (Calculation method)

STOT RE 2: H373 May cause damage to organs (urinary tract) through prolonged or repeated

exposure. (Calculation method)

Modified position none

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