

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 10.02.2020

Version number 1.08

Revision: 04.02.2020

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

· **1.1 Product identifier**

· Trade name **RENITHERM Top Coat**  
**RAL 7042, Komp. A**

· Article number: 438742

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

· **Life cycle stages**

IS Use at industrial Sites

PW Widespread use by professional workers

· **Product category** PC9a Coatings and paints, thinners, paint removers

· **Application of the substance / the mixture** Coating

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

· **Manufacturer/Supplier:**

AUDAX-Keck GmbH

Weiherstr. 10

75365 Calw / Germany

Tel.: +49.7051.1625.0

Fax: +49.7051.1625.50

INFO: \_\_\_ GL / R&D

Tel.: +49.7051.1625.0

Fax: +49.7051.1625.50

SDB-/MSDS, e-mail:

info@audax.de

· **1.4 Emergency telephone number:**

During normal opening times:

Responsible Department: GL / R&D

Tel.: 004970511625 0

Fax: 004970511625 50

### SECTION 2: Hazards identification

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

· Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3

H226 Flammable liquid and vapour.



GHS08 health hazard

STOT RE 2

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



GHS07

Skin Irrit. 2

H315 Causes skin irritation.

Eye Irrit. 2

H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 10.02.2020

Version number 1.08

Revision: 04.02.2020

**Trade name RENITHERM Top Coat**  
**RAL 7042, Komp. A**

(Contd. of page 1)

· **Hazard pictograms**



GHS02   GHS07   GHS08

· **Signal word** Warning

· **Hazard-determining components of labelling:**

xylene

· **Hazard statements**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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

H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P210                    Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241                    Use explosion-proof [electrical/ventilating/lighting] equipment.

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.

P403+P235            Store in a well-ventilated place. Keep cool.

P501                    Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

EUH208 Contains Fatty acids, C18-unsatd., dimers, compds. with coco alkylamines. May produce an allergic reaction.

· **2.3 Other hazards** Product is not explosive. However, formation of explosive steam/air mixtures is possible.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

· **Description:** Mixture consisting of the following components with harmless additives.

· **Dangerous components:**

EC number: 905-562-9 Reg.nr.: 01-2119555267-33	reaction mass of ethylbenzene and xylene ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	10-<20%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32	xylene ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	5-<10%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4 Reg.nr.: 01-2119489370-35	ethylbenzene ⚠ Flam. Liq. 2, H225; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332; Aquatic Chronic 3, H412	2.5-<5%
CAS: 7779-90-0 EINECS: 231-944-3 Index number: 030-011-00-6 Reg.nr.: 01-2119485044-40	trizinc bis(orthophosphate) ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1-<2.5%

(Contd. on page 3)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 10.02.2020

Version number 1.08

Revision: 04.02.2020

**Trade name RENITHERM Top Coat**  
**RAL 7042, Komp. A**

(Contd. of page 2)

CAS: 68647-95-0

EC number: 614-682-8

Reg.nr.: 01-2120099181-55

Fatty acids, C18-unsatd., dimers, compds. with coco alkylamines

⚠ STOT RE 2, H373; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317

≥0.1-&lt;0.25%

· **SVHC**

Substances of very high concern (SVHC) according to REACH, Article 57

- NONE

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information**

Personal protection for the First Aider.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Do not leave affected persons unsupervised.

Take affected persons out of danger area and instruct to lie down.

· **After inhalation** In case of unconsciousness bring patient into stable side position for transport.

· **After skin contact**

Instantly wash with water and soap and rinse thoroughly.

Instantly rinse with water.

If skin irritation continues, consult a doctor.

· **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

Protect unharmed eye.

· **After swallowing** Rinse out mouth and then drink plenty of water.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents**

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

· **5.2 Special hazards arising from the substance or mixture**

Can be released in case of fire

Formation of poisonous gases during heating or in fires.

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

· **5.3 Advice for firefighters**

· **Protective equipment:**

Do not inhale explosion gases or combustion gases.

Put on breathing apparatus.

· **Additional information**

Cool endangered containers with water spray jet.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter drains.

GB

(Contd. on page 4)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 10.02.2020

Version number 1.08

Revision: 04.02.2020

**Trade name RENITHERM Top Coat**  
**RAL 7042, Komp. A**

(Contd. of page 3)

### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Keep away from ignition sources

Wear protective clothing.

· **6.2 Environmental precautions:**

Do not allow product to reach sewage system or water bodies.

Prevent material from reaching sewage system, holes and cellars.

Inform respective authorities in case product reaches water or sewage system.

Keep dirty washing water for appropriate disposal.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep breathing equipment ready.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage**

**Requirements to be met by storerooms and containers:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep container tightly sealed.

· **Storage class**

TRGS-510

3

· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **8.1 Control parameters**

· **Components with critical values that require monitoring at the workplace:**

**reaction mass of ethylbenzene and xylene**

WEL (Great Britain)

Short-term value: 441 mg/m<sup>3</sup>, 100 ppm

Long-term value: 220 mg/m<sup>3</sup>, 50 ppm

Sk; BMGV

IOELV (European Union)

Short-term value: 442 mg/m<sup>3</sup>, 100 ppm

Long-term value: 221 mg/m<sup>3</sup>, 50 ppm

Skin

(Contd. on page 5)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 10.02.2020

Version number 1.08

Revision: 04.02.2020

**Trade name RENITHERM Top Coat**  
**RAL 7042, Komp. A**

(Contd. of page 4)

**1330-20-7 xylene**

WEL (Great Britain)	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV
IOELV (European Union)	Short-term value: 442 mg/m <sup>3</sup> , 100 ppm Long-term value: 221 mg/m <sup>3</sup> , 50 ppm Skin

**100-41-4 ethylbenzene**

WEL (Great Britain)	Short-term value: 552 mg/m <sup>3</sup> , 125 ppm Long-term value: 441 mg/m <sup>3</sup> , 100 ppm Sk
IOELV (European Union)	Short-term value: 884 mg/m <sup>3</sup> , 200 ppm Long-term value: 442 mg/m <sup>3</sup> , 100 ppm Skin

**· DNELs****reaction mass of ethylbenzene and xylene**

Oral	DNEL	1.6 mg/kg bw/d (consumer long time)
Dermal	DNEL	180 mg/kg bw/d (worker long time) 108 mg/kg bw/d (consumer long time)
Inhalative	DNEL	289 mg/m <sup>3</sup> (worker long time) 14.8 mg/m <sup>3</sup> (consumer long time) 174 mg/m <sup>3</sup> (consumer short time)

**1330-20-7 xylene**

Oral	DNEL	1.6 mg/kg bw/d (consumer long time)
Dermal	DNEL	180 mg/kg bw/d (worker long time) 108 mg/kg bw/d (consumer long time)
Inhalative	DNEL	289 mg/m <sup>3</sup> (worker long time) 14.8 mg/m <sup>3</sup> (consumer long time) 174 mg/m <sup>3</sup> (consumer short time)

**100-41-4 ethylbenzene**

Dermal	DNEL	180 mg/kg bw/d (worker long time) 108 mg/kg bw/d (consumer long time)
Inhalative	DNEL	77 mg/m <sup>3</sup> (worker long time) 289 mg/m <sup>3</sup> (worker short time) 174 mg/m <sup>3</sup> (consumer short time)

**7779-90-0 trizinc bis(orthophosphate)**

Oral	DNEL	0.83 mg/kg bw/d (consumer long time)
Dermal	DNEL	83 mg/kg bw/d (worker long time) 83 mg/kg bw/d (consumer long time)
Inhalative	DNEL	5 mg/m <sup>3</sup> (worker long time) 2.5 mg/m <sup>3</sup> (consumer long time)

**· PNECs****reaction mass of ethylbenzene and xylene**

PNEC	12.46 mg/L (sediment fresh water) 12.46 mg/L (sediment sea water) 6.58 mg/L (sewage) 327 mg/L (sea water)
------	--

(Contd. on page 6)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 10.02.2020

Version number 1.08

Revision: 04.02.2020

**Trade name RENITHERM Top Coat**  
**RAL 7042, Komp. A**

(Contd. of page 5)

	327 mg/L (fresh water)
<b>1330-20-7 xylene</b>	
<b>PNEC</b>	12.46 mg/L (sediment fresh water) 12.46 mg/L (sediment sea water) 6.58 mg/L (sewage) 327 mg/L (sea water) 327 mg/L (fresh water)
<b>7779-90-0 trizinc bis(orthophosphate)</b>	
<b>PNEC</b>	235.6 mg/L (sediment fresh water) 113 mg/L (sediment sea water) 52 mg/L (sewage) 0.0061 mg/L (sea water) 20.6 mg/L (fresh water)
<b>· Ingredients with biological limit values:</b>	
<b>reaction mass of ethylbenzene and xylene</b>	
<b>BMGV (Great Britain)</b>	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
<b>1330-20-7 xylene</b>	
<b>BMGV (Great Britain)</b>	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

The usual precautionary measures should be adhered to in handling the chemicals.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

EN-136; EN-143; EN-149; EN-529;

Use breathing protection in case of insufficient ventilation.

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.



Filter A/P2.

· **Protection of hands:**

EN-374 (III):



Protective gloves.

(Contd. on page 7)

GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 10.02.2020

Version number 1.08

Revision: 04.02.2020

**Trade name RENITHERM Top Coat**  
**RAL 7042, Komp. A**

(Contd. of page 6)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

To avoid skin problems reduce the wearing of gloves to the required minimum.

Avoid direct contact with the chemical/ the product/ the preparation by organisational measures.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Recommended thickness of the material:

≥ 0,6 mm

· **Penetration time of glove material**

Value for the permeation: Level ≥

6

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

EN-166:



Safety glasses

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:** Fluid

**Colour:** According to product specification

· **Smell:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not applicable  
Not determined.

· **Change in condition**

**Melting point/freezing point:** Not determined

**Initial boiling point and boiling range:** 136 °C ((EC)440/2008, Annex A.2)

· **Flash point:** 30 °C ((EC)440/2008, Annex A.9)

· **Inflammability (solid, gaseous)** Not applicable.

· **Ignition temperature:** 500 °C ((EC)440/2008, Annex A.15)

· **Decomposition temperature:** Not determined  
Not determined.

· **Self-inflammability:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive. However, formation of explosive steam/air mixtures is possible.

(Contd. on page 8)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 10.02.2020

Version number 1.08

Revision: 04.02.2020

**Trade name RENITHERM Top Coat**  
**RAL 7042, Komp. A**

(Contd. of page 7)

· <b>Critical values for explosion:</b>	
<b>Lower:</b>	1 Vol %
<b>Upper:</b>	7.8 Vol %
· <b>Oxidising properties</b>	None
· <b>Vapor pressure at 20 °C:</b>	5-10 hPa ((EC)440/2008, Annex A.4)
· <b>Density at 20 °C</b>	1.53 g/cm <sup>3</sup> ((EC)440/2008, Annex A.3)
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix
· <b>Partition coefficient: n-octanol/water:</b>	Not determined Not determined.
· <b>Viscosity:</b>	
<b>dynamic at 20 °C:</b>	500 mPas
<b>kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	22.9 %
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Conditions to be avoided:** No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid**  
Use explosion-proof [electrical/ventilating/lighting] equipment.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- **10.5 Incompatible materials:**  
Reacts with strong oxidizing agents  
Reacts with strong acids  
Reacts with strong alkali
- **10.6 Hazardous decomposition products:** None

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

**reaction mass of ethylbenzene and xylene**

Oral	LD50	>2,000 mg/kg (Muroidea)
Dermal	LD50	>2,000 mg/kg (Leporidaea)
Inhalative	LC50/4 h	>20 mg/L (Muroidea)

**1330-20-7 xylene**

Oral	LD50	>2,000 mg/kg (Muroidea)
Dermal	LD50	>2,000 mg/kg (Leporidaea)
Inhalative	LC50/4 h	>20 mg/L (Muroidea)

(Contd. on page 9)



**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 10.02.2020

Version number 1.08

Revision: 04.02.2020

**Trade name RENITHERM Top Coat**  
**RAL 7042, Komp. A**

(Contd. of page 8)

**100-41-4 ethylbenzene**

Oral	LD50	3,500 mg/kg (Muroidea)
Dermal	LD50	17,800 mg/kg (Leporidae)

**7779-90-0 trizinc bis(orthophosphate)**

Oral	LD50	>5,000 mg/kg (Muroidea)
Inhalative	LC50/4 h	5.7 mg/L (Muroidea)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****reaction mass of ethylbenzene and xylene**

EC50/24h	10 mg/L (Daphnia magna)
LC50/96h	1 mg/L (Piscis)
LC50/48h	8.5 mg/L (Crustacea)

**1330-20-7 xylene**

EC50/24h	10 mg/L (Daphnia magna)
LC50/96h	1 mg/L (Piscis)
LC50/48h	8.5 mg/L (Crustacea)

**100-41-4 ethylbenzene**

EC50/48h	2.97 mg/L (Daphnia magna)
LC50/96h	4.2 mg/L (Oncorhynchus mykiss)
	10 mg/L (Piscis)

**7779-90-0 trizinc bis(orthophosphate)**

EC50/72h (static)	<1 mg/L (Pseudokirchneriella subcapitata)
EC50/48h (static)	<1 mg/L (Daphnia magna)
LC50/96h (static)	<1 mg/L (Piscis)

- **12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential****reaction mass of ethylbenzene and xylene**

log Pow	3.2 ([Co/Cw])
BCF	25.9

**1330-20-7 xylene**

log Pow	3.2 ([Co/Cw])
---------	---------------

(Contd. on page 10)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 10.02.2020

Version number 1.08

Revision: 04.02.2020

**Trade name RENITHERM Top Coat**  
**RAL 7042, Komp. A**

(Contd. of page 9)

BCF	25.9
<b>100-41-4 ethylbenzene</b>	
log Pow	3.15 ([Co/Cw])

- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:** Harmful to aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
Hand over to disposers of hazardous waste.

- **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 10*	packaging containing residues of or contaminated by hazardous substances
HP3	Flammable
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP14	Ecotoxic

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- **14.1 UN-Number**

- **ADR/RID**

Void  
packaging ≤ 450 L (litres)  
-----  
packaging > 450 L (litres):  
UN1263

- **ADN**

Void  
packaging ≤ 450 L (litres)  
-----  
packaging > 450 L (litres):  
UN1263

- **IMDG**

Void  
packaging ≤ 30 L (litres)

(Contd. on page 11)

**Safety data sheet**  
according to 1907/2006/EC, Article 31


Printing date 10.02.2020

Version number 1.08

Revision: 04.02.2020

**Trade name RENITHERM Top Coat**  
**RAL 7042, Komp. A**

(Contd. of page 10)

·	----- packaging > 30 L (litre): UN1263
· IATA	UN1263
· 14.2 UN proper shipping name	
· ADR/RID	PAINT packaging > 450 L (litres) ----- packaging ≤ 450 L (litres) Void
· ADN	Void packaging ≤ 450 L (litres) ----- packaging > 450 L (litres): PAINT  =====
· IMDG	IMDG: PAINT packaging > 30 L (litres) ----- packaging ≤ 30 L (litres) Void
· IATA	PAINT
· 14.3 Transport hazard class(es)	
· ADR/RID, ADN · Class	Void packaging ≤ 450 L (litres) ----- packaging > 450 L (litres): 3 Flammable liquids.
· IMDG · Class	Void packaging ≤ 30 L (litres) ----- packaging > 30 L (litre): 3 Flammable liquids.
· IATA	
	
· Class · Label	3 Flammable liquids. 3
· 14.4 Packing group	

(Contd. on page 12)

GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 10.02.2020

Version number 1.08

Revision: 04.02.2020

**Trade name RENITHERM Top Coat**  
**RAL 7042, Komp. A**

(Contd. of page 11)

· <b>ADR/RID</b>	Void packaging ≤ 450 L (litres) ----- packaging > 450 L (litres): <b>III</b>
· <b>IMDG</b>	Void packaging ≤ 30 L (litres) ----- packaging > 30 L (litre): <b>III</b>
· <b>IATA</b>	<b>III</b>
· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>14.6 Special precautions for user</b> · <b>Segregation groups</b>	Not applicable. Not applicable
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR/RID</b> · <b>Remarks:</b>	packagings ≤ 450 litres: "transport acc. ADR 2.2.3.1.5"
· <b>IMDG</b> · <b>Remarks:</b>	packagings ≤ 30 litres: "transport acc. IMDG-code 2.3.2.5" packagings > 30 Liter: Ems-No. F-E,S-E
· <b>UN "Model Regulation":</b>	Void

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **REGULATION (EC) No 1005/2009:** No component is listed.
- **REGULATION (EC) NO 850/2004:** No component is listed.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P5c FLAMMABLE LIQUIDS**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

#### · **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**

None of the ingredients is listed.

- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations**
- **Information about limitation of use:**  
Employment restrictions concerning young persons must be observed.  
COUNCIL DIRECTIVE 94/33/EC on the protection of young people at work
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

(Contd. on page 13)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 10.02.2020

Version number 1.08

Revision: 04.02.2020

**Trade name RENITHERM Top Coat**  
**RAL 7042, Komp. A**

(Contd. of page 12)

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

· **VOC-EU (1999/13/EG):** 22.90 %

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

· **Training hints**

The product should be handled only by persons who have been sufficiently informed about the work, the hazardous properties and necessary safety precautions.

DIRECTIVE 98/24/EC

· **Classification according to Regulation (EC) No 1272/2008**

Flammable liquids	Bridging principles
Skin corrosion/irritation Serious eye damage/eye irritation Specific target organ toxicity (repeated exposure) Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing data specification sheet:** Responsible Department: GL / R&D

· **Abbreviations and acronyms:**

REACH -Reg.nr.: \* \* \* \* \* = Exempted from REACH-Registration.

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity - dermal – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

(Contd. on page 14)

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 10.02.2020

Version number 1.08

Revision: 04.02.2020

**Trade name RENITHERM Top Coat**  
**RAL 7042, Komp. A**

(Contd. of page 13)

*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*

*Skin Sens. 1: Skin sensitisation – Category 1*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

*STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2*

*Asp. Tox. 1: Aspiration hazard – Category 1*

*Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1*

*Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1*

*Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*

• **Sources**

*REACH: Regulation (EU) 1907/2006*

*CLP: Regulation (EU) 1272/2008*

*<http://echa.europa.eu/>*

*<http://echa.europa.eu/information-on-chemicals>*

*<http://echa.europa.eu/regulations>*

*MSDS, SDB, SDS*

-GB-