

Safety data sheet

according to 1907/2006/EC

Printing date 11.07.2017

Version number 6

Revision: 11.07.2017

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

· **1.1 Product identifier**

· Trade name **UV SEALER R**

· Article number: 1350-0151

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

No further relevant information available.

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

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

· **Manufacturer/Supplier:**

HEIDELBERGER LACKFABRIK
RENTZSCH GMBH & CO. KG

KURPFALZRING 100A

D-69123 HEIDELBERG
GERMANY

PHONE: +49 6221 7485-0

FAX: +49 6221 7485-24

EMAIL: info@heidelberger-lackfabrik.de

· **Informing department:** Product safety department.

· **1.4 Emergency telephone number:**

TEL.: 06221 / 7485-16 (Mo.-Fr. 7:30-16:00)

EMAIL: labor@heidelberger-lackfabrik.de

SECTION 2: Hazards identification

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

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



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.

· **2.2 Label elements**

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

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

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· **Hazard pictograms** GHS05, GHS07· **Signal word** Danger· **Hazard-determining components of labelling:**

4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

Dipropylenglykoldiacrylat

propylidynetrimethanol, ethoxylated, esters with acrylic acid

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

· **Hazard statements**

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H413 May cause long lasting harmful effects to aquatic life.

· **Precautionary statements**

P273 Avoid release to the environment.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.





P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

· **2.3 Other hazards**· **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 of the substances listed below with harmless additions.· **Dangerous components:**

CAS: 55818-57-0 NLP: 500-130-2	4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid  Skin Sens. 1, H317; Aquatic Chronic 4, H413	12.5-25%
CAS: 28961-43-5 NLP: 500-066-5 Reg.nr.: 01-2119489900-30	propylidynetrimethanol, ethoxylated, esters with acrylic acid  Eye Irrit. 2, H319; Skin Sens. 1, H317	12.5-25%
CAS: 57472-68-1 EINECS: 260-754-3 Reg.nr.: 01-2119484629-21	Dipropylenglykoldiacrylat  Eye Dam. 1, H318;  Skin Irrit. 2, H315; Skin Sens. 1, H317	2.5-10%

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CAS: 7473-98-5 EINECS: 231-272-0 Reg.nr.: 01-2119472306-39	2-hydroxy-2-methylpropiophenone ⚠ Acute Tox. 4, H302; Aquatic Chronic 3, H412	< 2.5%
	EFKA 6220 Lackadditiv ⚠ Acute Tox. 4, H302	< 2.5%
CAS: 162881-26-7 ELINCS: 423-340-5 Reg.nr.: 01-2119489401-38	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide ⚠ Skin Sens. 1, H317; Aquatic Chronic 4, H413	< 0.5%

- **SVHC** The product contains no substances named in the SVHC candidate list.
- **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** Instantly remove any clothing soiled by the product.
- **After inhalation**
Supply fresh air; consult doctor in case of symptoms.
In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact** Instantly rinse with water.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing** In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** Allergic reactions
- **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**
CO₂, 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**
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Use breathing protection against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.

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- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose of contaminated material as waste according to item 13.
- **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** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Provide solvent resistant, sealed floor.
Provide floor trough without outlet.
Store in cool location.
- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class** 10
- **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:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

55818-57-0 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

Dermal	DNEL	17.5 mg/kg bw/day (worker, systemic, long term)
Inhalative	DNEL	122.5 mg/m ³ (worker, systemic, long term)

28961-43-5 propylidynetrimethanol, ethoxylated, esters with acrylic acid

Oral	DNEL	1.39 mg/kg bw/day (consumer, systemic, long term)
Dermal	DNEL	0.8 mg/kg bw/day (worker, systemic, long term)
		0.48 mg/kg bw/day (consumer, systemic, long term)

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Inhalative	DNEL	16.2 mg/m ³ (worker, systemic, long term) 4.9 mg/m ³ (consumer, systemic, long term)
57472-68-1 Dipropylenglykoldiacrylat		
Inhalative	DNEL	24.48 mg/m ³ (worker, systemic, long term)
7473-98-5 2-hydroxy-2-methylpropiophenone		
Dermal	DNEL	1.25 mg/kg bw/day (worker, systemic, short term) 1.25 mg/kg bw/day (worker, systemic, long term)
Inhalative	DNEL	3.5 mg/m ³ (worker, systemic, short term) 3.5 mg/m ³ (worker, systemic, long term)
162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide		
Oral	DNEL	1.5 mg/kg bw/day (consumer, systemic, long term)
Dermal	DNEL	3.3 mg/kg bw/day (worker, systemic, short term) 3.3 mg/kg bw/day (worker, systemic, long term) 1.5 mg/kg bw/day (consumer, systemic, long term)
Inhalative	DNEL	21 mg/m ³ (worker, systemic, short term) 21 mg/m ³ (worker, systemic, long term) 5.2 mg/m ³ (consumer, systemic, long term)

· PNECs**55818-57-0 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid**

PNEC	0.1 mg/l (fresh water) 0.01 mg/l (salt water) 1.0 mg/l (sporadic release) 10 mg/l (sewage plant (STP))
PNEC	35.8 mg/kg dwt (fresh water sediment) 3.58 mg/kg dwt (salt water sediment) 71 mg/kg dwt (soil)

28961-43-5 propylidynetrimethanol, ethoxylated, esters with acrylic acid

PNEC	0.00195 mg/l (fresh water) 0.000195 mg/l (salt water) 0.0195 mg/l (sporadic release) 10 mg/l (sewage plant (STP))
PNEC	0.0082 mg/kg dwt (fresh water sediment) 0.00587 mg/kg dwt (soil)

57472-68-1 Dipropylenglykoldiacrylat

PNEC	0.0034 mg/l (fresh water) 0.00034 mg/l (salt water)
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	0.034 mg/l (sporadic release)
	100 mg/l (sewage plant (STP))
PNEC	0.00884 mg/kg dw (fresh water sediment)
	0.000884 mg/kg dw (salt water sediment)
	0.0013 mg/kg dw (soil)
7473-98-5 2-hydroxy-2-methylpropiophenone	
PNEC	0.00195 mg/l (fresh water)
	0.000195 mg/l (salt water)
	0.0195 mg/l (sporadic release)
	45 mg/l (sewage plant (STP))
PNEC	0.000514 mg/kg dw (salt water)
	0.00514 mg/kg dw (fresh water sediment)
	0.000674 mg/kg dw (soil)

· **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**

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.

Avoid contact with the eyes and skin.

· **Breathing equipment:** Not necessary if room is well-ventilated.

· **Protection of hands:**



Protective gloves.

· **Material of gloves**

We recommend:

Nitril / Neopren ; strength >0,55 mm

naturelatex; strength > 1,0 mm

e.g. Sol-Vex 37-185; Emperor ME 104

(breakdown time >180 min)

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.

· **Penetration time of glove material**

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

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· **Eye protection:**

Tightly sealed safety glasses.

· **Body protection:** Protective work clothing.

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:** Neutral· **Change in condition**

Melting point/freezing point:	Not determined
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Initial boiling point and boiling range:	101 °C
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· **Flash point**

(ISO 3679 / ISO 3680; SETA CLOSED CUP): >100 °C (DIN EN 456)

· **Inflammability (solid, gaseous)** Not applicable.· **Ignition temperature:** 240 °C· **Decomposition temperature:** Not determined.· **Self-inflammability:** Product is not selfigniting.· **Explosive properties:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.· **Critical values for explosion:**

Lower:	Not determined.
Upper:	Not determined.

· **Steam pressure:** Not determined.· **Density (DIN 51757) at 20 °C:** 1.768 g/cm³· **Relative density** Not determined.· **Vapour density** Not determined.· **Evaporation rate** Not determined.· **Solubility in / Miscibility with**

Water:	Not miscible or difficult to mix
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· **Partition coefficient: n-octanol/water:** Not determined.

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- | | |
|-----------------------------------|--|
| · Viscosity: | |
| dynamic: | Not determined. |
| kinematic: | Not determined. |
| · Solvent content: | |
| Organic solvents: | 0.1 % |
| Water: | 0.0 % |
| VOC, EU (%) | 0.08 % |
| Solids content(DIN 53189): | 92.4 % |
| · 9.2 Other information | No further relevant information available. |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
When diluting, always add acid to water, never vice versa
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Bases, oxidizing agents, amines
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

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:**

55818-57-0 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

Oral	LD50	> 2000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)

28961-43-5 propylidynetrimethanol, ethoxylated, esters with acrylic acid

Oral	LD50	> 2000 mg/kg (rat)
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57472-68-1 Dipropylenglykoldiacrylat

Oral	LD50	3530 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)

Laromer PE 9079

Oral	LD50	> 2000 mg/kg (rat)
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7473-98-5 2-hydroxy-2-methylpropiophenone

Oral LD50 1694 mg/kg (rat) (OECD-Richtlinie 423)

Dermal LD50 6929 mg/kg (rat) (OECD-Richtlinie 402)

EFGA 6220**Lackadditiv**

Oral LD50 2000-5000 mg/kg (rat) (OECD-Richtlinie 401)

112945-52-5 Hochdisperses, amorphes Siliciumdioxid

Oral LD50 > 5000 mg/kg (rat)

Dermal LD50 > 2000 mg/kg (rabbit)

162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Oral LD50 > 2000 mg/kg (rat)

Dermal LD50 > 2000 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **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** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

7778-18-9 calcium sulphate, natural

EC50 > 79 mg/l (daphniae)

> 79 mg/l (algae)

> 790 mg/l (bacteriae)

LC50 > 79 mg/l (fish)

28961-43-5 propylidynetrimethanol, ethoxylated, esters with acrylic acid

EC50 70.7 mg/l (daphniae) (48 h; Daphnia magna)

ErC50 2.2 mg/l (algae) (72 h; Desmodesmus subspicatus)

LC50 1.95 mg/l (fish) (96 h; Brachydanio rerio)

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57472-68-1 Dipropylenglykoldiacrylat

EC50	10-100 mg/l (daphniae) (48 h)
	10-100 mg/l (algae) (72)
LC50	1-10 mg/l (fish) (96 h)

7473-98-5 2-hydroxy-2-methylpropiophenone

EC10	450 mg/l (bacteriae) (OECD-Richtlinie 209, aerob)
EC50 (static)	> 119 mg/l (daphniae) (OECD-Richtlinie 202, Teil 1)
	1.95 mg/l (algae) (OECD-Richtlinie 201)
	> 1000 mg/l (bacteriae) (OECD-Richtlinie, aerob)
LC50 (static)	160 mg/l (fish) (DIN 38412 Teil 15)

EFKA 6220
Lackadditiv

EC50	< 1 mg/l (algae)
	< 1 mg/l (bacteriae) (OECD-Richtlinie 209)
LC50	< 1 mg/l (fish)
	< 1 mg/l (daphniae)

112945-52-5 Hochdisperses, amorphes Siliciumdioxid

LC50	> 10000 mg/l (fish) (96 h; Brachydanio rerio)
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162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

EC50	> 100 mg/l mg/l (bacteriae) (3 h; Belebtschlamm)
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- **12.2 Persistence and degradability**
Heavily biodegradable

7473-98-5 2-hydroxy-2-methylpropiophenone

CO2-Development Test (OECD 301 B)	90 - 100 % (-) (28 d)
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- **12.3 Bioaccumulative potential** May be accumulated in organism
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **AOX-indication:** not relevant
- **According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:**
none
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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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.

· European waste catalogue

The waste key numbers from EWC, is sector and process-specific implement .

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 17*	wastes from paint or varnish removal containing organic solvents or other hazardous substances

· Uncleaned packagings:

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number

· ADR, ADN, IMDG, IATA

No dangerous good

· 14.2 UN proper shipping name

· ADR, ADN, IMDG, IATA

No dangerous good

· 14.3 Transport hazard class(es)

· ADR, ADN, IMDG, IATA

· Class

No dangerous good

· 14.4 Packing group

· ADR, IMDG, IATA

No dangerous good

· 14.5 Environmental hazards:

· Marine pollutant:

No

· 14.6 Special precautions for user

Transport only in sealed and upright standing containers. Transport only by persons instructed concerning the measures in case of spilling or accident.

· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

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· UN "Model Regulation":	No dangerous good
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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2004/42/EC of the European Parliament and of the Council of 21 April 2004 / Part II 2010**
The 2004/42/EG does not apply for this product.
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** GHS05, GHS07
- **Signal word** Danger
- **Hazard-determining components of labelling:**
4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid
Dipropylenglykoldiacrylat
propylidynetrimethanol, ethoxylated, esters with acrylic acid
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
- **Hazard statements**
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H413 May cause long lasting harmful effects to aquatic life.
- **Precautionary statements**
P273 Avoid release to the environment.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves / eye protection / face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of water.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations** Control of Substances Hazardous to Health (COSHH)
- **Information about limitation of use:** none
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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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.

The REACH registration numbers given in chapter 1 (for substances) or chapter 3 (for formulations) are given to our present knowledge resulting from the information provided by our suppliers.

· **Relevant phrases**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

· **Department issuing data specification sheet:** Laboratory

· **Contact:**

Dr. Marcus Rentzsch

Phone: 0049-6221-74 85 28

· **Abbreviations and acronyms:**

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)

VOC: Volatile Organic Compounds (USA, EU)

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

Acute Tox. 4: Acute toxicity – Category 4

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

Skin Sens. 1: Skin sensitisation – Category 1

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

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

· *** Data compared to the previous version altered.**