

## Safety data sheet

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

Printing date 07.07.2021

version: 25

Revision: 07.07.2021

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

• **1.1 Product identifier**

• **Trade name** **REVELL EMAIL COLOR seidenmatt**

**Nr. 301; 302; 310; 314; 330; 331; 350; 360; 361; 362; 363;  
364; 365; 371; 374; 378; 381; 382;**

• **Article number:**

Dreisol:

R3220-9301; R3220-9302; R3220-1310; R3220-1314; R3220-3330;  
R3220-3331; R3220-5350; R3220-6360; R3220-6361; R3220-6362;  
R3220-6363; R3220-6364; R3220-6365; R3220-7371; R3220-7374;  
R3220-7378; R3220-8381; R3220-8382;

Revell-Nr.:

32301; 32302; 32310; 32314; 32330; 32331; 32350; 32360; 32361;  
32362; 32363; 32364; 32365; 32371; 32374; 32378; 32381; 32382;

Color set:

32344

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

- **Sector of Use** SU21 Consumer uses: Private households / general public / consumers
- **Product category** PC9a Coatings and paints, thinners, paint removers
- **Process category** PROC10 Roller application or brushing
- **Application of the substance / the mixture** toy lacquer

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

• **Manufacturer/Supplier:**

Revell GmbH  
Henschelstr. 20-30  
D-32257 Bünde

Tel.: +49(0)5223-965-0  
<http://www.revell.de>

• **Informing department:**

department product safety  
e-mail adress of competent person:

Tel.: +49(0)5742/9300-41  
[sdb@dreisol.de](mailto:sdb@dreisol.de)

• **1.4 Emergency telephone number:**

NHS (National Health Service)  
Poison Information Centre (GIZ-Nord):

111  
Tel.: +49(0)551-19240

### SECTION 2: Hazards identification

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

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



flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



STOT SE 3 H336 May cause drowsiness or dizziness.

• **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)

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**364; 365; 371; 374; 378; 381; 382;**

(Contd. of page 1)

· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Warning

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics\*

· **Hazard statements**

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

· **Precautionary statements**

P102 Keep out of reach of children.

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

P240 Ground and bond container and receiving equipment.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P405 Store locked up.

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

· **Additional information:**

Contains cobalt(II) 2-ethylhexanoate, Neodecanoic acid, cobalt salt. May produce an allergic reaction.

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

· **Additional information**

Child-resistant fastening not required (Annex II, Part 3.1 CLP)

Tactile warning not required (Annex II, Part 3.2 CLP)

### SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:**

Paint mixture based of alkyd resins and/or pigment/extender with the following components.

· **Dangerous components:**

CAS: 1174522-20-3 EC number: 919-857-5 Reg.nr.: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics* Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336	25-50%
CAS: 1174522-09-8 EC number: 918-481-9 Reg.nr.: 01-2119457273-39	Naphtha (petroleum), hydrotreated heavy Asp. Tox. 1, H304	7-10%
CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35	1-methoxypropan-2-ol Flam. Liq. 3, H226 STOT SE 3, H336	3-5%

(Contd. on page 3)

## Safety data sheet

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










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(Contd. of page 2)

CAS: 136-52-7 EINECS: 205-250-6 Reg.nr.: 01-2119524678-29	cobalt(II) 2-ethylhexanoate  Repr. 2, H361  Aquatic Acute 1, H400  Eye Irrit. 2, H319; Skin Sens. 1, H317 Aquatic Chronic 3, H412	0.1-0.2%
CAS: 22464-99-9 EINECS: 245-018-1 Reg.nr.: 01-2119979088-21	2-Ethylhexansäure, Zirconiumsalz  Repr. 2, H361	0.1-0.2%
CAS: 98-73-7 EINECS: 202-696-3 Reg.nr.: 01-2119622072-54	4-tert-butylbenzoic acid  Repr. 1A, H360; STOT RE 1, H372  Aquatic Chronic 2, H411  Acute Tox. 4, H302	0.1-0.2%
CAS: 27253-31-2 EINECS: 248-373-0 Reg.nr.: 01-2119970733-31	Neodecanoic acid, cobalt salt  STOT RE 1, H372  Acute Tox. 4, H302; Skin Sens. 1, H317 Aquatic Chronic 3, H412	0.1-0.2%

• **Additional information**

\*) Benzene content is less than 0.1% (EINECS-No. 200-753-7). It is P. Note  
 Contains no other ingredients (≅ 0,1%) that are classified as hazardous to health or the environment according to the current knowledge of the supplier and must be mentioned in this section.  
 The wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information** Remove contaminated, saturated clothing immediately.
- **After inhalation**  
 Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
 In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact**  
 Instantly wash with water and soap and rinse thoroughly.  
 If skin irritation continues, consult a doctor.
- **After eye contact**  
 Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing** Do not induce vomiting; instantly call for medical help.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents** Water.
- **5.2 Special hazards arising from the substance or mixture**  
 Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazards.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**  
 Cool closed containers exposed to fire with water.

(Contd. on page 4)

## Safety data sheet

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**364; 365; 371; 374; 378; 381; 382;**

(Contd. of page 3)

Do not allow run-off from fire fighting to enter drains or water courses.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Remove all sources of ignition. Provide adequate ventilation. Refer to protective measurer, listed in sections 7 and 8.
- **6.2 Environmental precautions:**  
Do not allow product to enter into sewerage systems or water bodies.  
Inform respective authorities in case of product reaches water or sewage systems.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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 working place.  
Keep containers tightly sealed.
- **Information about protection against explosions and fires:**  
Protect against electrostatic charges.  
Keep ignition sources away - Do not smoke.  
Vapours are heavier than air and may spread along floors. Vapours may form explosive mixture with air.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by warehouses and containers:** Store only in the original container.
- **Information about storage in one common storage facility:**  
Keep away from foodstuffs, beverages and food.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **Storage class 3**
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**

#### 107-98-2 1-methoxypropan-2-ol

WEL (Great Britain)	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm Sk
IOELV (European Union)	Short-term value: 568 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm Skin

(Contd. on page 5)

GB

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**364; 365; 371; 374; 378; 381; 382;**

(Contd. of page 4)

**136-52-7 cobalt(II) 2-ethylhexanoate**

WEL (Great Britain)	Long-term value: 0.1 mg/m <sup>3</sup> as Co; Carc, Sen
---------------------	--

· **DNELs****1174522-20-3 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics\***

Oral	DNEL	300 mg/kg/day (General population, long-term exposure)
Dermal	DNEL	300 mg/kg/day (General population, long-term exposure)
		300 mg/kg/day (Workers, long-term exposure)
Inhalative	DNEL	900 mg/m <sup>3</sup> (General population, long-term exposure)
		1,500 mg/m <sup>3</sup> (Workers, long-term exposure)

**136-52-7 cobalt(II) 2-ethylhexanoate**

Oral	DNEL	0.0558 mg/kg/day (General population, long-term exposure)
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**107-98-2 1-methoxypropan-2-ol**

Oral	DNEL	3.3 mg/kg/day (General population, long-term exposure)
Dermal	DNEL	18.1 mg/kg/day (General population, long-term exposure)
		50.6 mg/kg/day (Workers, long-term exposure)
Inhalative	DNEL	43.9 mg/m <sup>3</sup> (General population, long-term exposure)
		369 mg/m <sup>3</sup> (Workers, long-term exposure)
		553.5 mg/m <sup>3</sup> (Workers, short-term exposure)

· **PNECs****136-52-7 cobalt(II) 2-ethylhexanoate**

PNEC	0.00236 mg/L (marine water)
	0.00051 mg/L (freshwater)
PNEC	7.9 mg/kg (soil)

**107-98-2 1-methoxypropan-2-ol**

PNEC	100 mg/L (sewage treatment plant)
	1 mg/L (marine water)
	10 mg/L (freshwater)
PNEC	2.47 mg/kg (soil)
	4.17 mg/kg (sediment (marine water))
	41.6 mg/kg (sediment (freshwater))

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

· **8.2 Exposure controls**· **Appropriate engineering controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

· **Individual protection measures, such as personal protective equipment**· **General protective and hygienic measures**

Instantly remove any spoiled and impregnated garments.

After skin contact clean with water and soap or use appropriate detergents. Do not use organic solvent.

Keep away from foodstuffs, beverages and food.

(Contd. on page 6)

GB

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**Trade name REVELL EMAIL COLOR seidenmatt**  
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**364; 365; 371; 374; 378; 381; 382;**

(Contd. of page 5)

- **Breathing equipment:**

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

*Filter A/P2.*

- **Hand protection**

*The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Barrier creams may help to protect the exposed areas of the skin.*

- **Material of gloves**

*Nitrile rubber or fluorine rubber (0.4 mm). Breakthrough time > 480min with full contact. Notice., The information provided by the glove manufacturer to permeability and breakthrough times and the specific workplace conditions. When cracking or change in color, shape or elasticity, the gloves should be changed immediately.*

- **Eye/face 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**

- **Colour:**

*According to product specification*

- **Smell:**

*Benzen-like*

- **Odour threshold:**

*Not determined.*

- **Boiling point or initial boiling point and boiling range**

*120 °C*

- **Flammability**

*Not applicable.*

- **Lower and upper explosion limit**

- **Lower:**

*0.6 Vol % (1174522-20-3 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics\*)*

- **Upper:**

*7.0 Vol % (1174522-20-3 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics\*)*

- **Flash point:**

*35 °C (DIN/ISO 3679)*

- **Self-inflammability:**

*Product is not self-igniting.*

- **Decomposition temperature:**

*Not determined.*

- **Viscosity:**

- **Kinematic viscosity at 20 °C**

*60 s (DIN 53211/4)*

- **or at 20 °C:**

*40 s (ISO 2431-1993/6 mm)*

- **dynamic:**

*Not determined.*

- **Solubility**

- **Water:**

*Not miscible or difficult to mix*

- **Steam pressure at 20 °C:**

*3 hPa (1174522-20-3 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics\*)*

- **Steam pressure**

- **Density and/or relative density**

- **Density at 20 °C**

*1,100-1,300 g/cm<sup>3</sup> (DIN 51757)*

- **Relative density**

*Not determined.*

- **Vapour density**

*Not determined.*

- **9.2 Other information**

*The values of specific gravity and viscosity are an orienting information.*

(Contd. on page 7)



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**Nr.** 301; 302; 310; 314; 330; 331; 350; 360; 361; 362; 363;  
 364; 365; 371; 374; 378; 381; 382;

(Contd. of page 6)

- **Appearance:**
- **Form:** Fluid
- **Important information on protection of health and environment, and on safety.**
- **Ignition temperature:** 200 °C (DIN 51794)
- **Explosive properties:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.
- **Solvent content:**
- **Organic solvents:** 46-52 %
- **Water:** 0.0 %
- **VOC (EG)** 440-640 g/l
- **Solids content:** 48-56 %
- **Evaporation rate** Not determined.

- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids**  
Flammable liquid and vapour.
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**  
Strong oxidizing agent.  
Strong acids and bases
- **10.6 Hazardous decomposition products:**  
such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

GB

(Contd. on page 8)

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**Nr. 301; 302; 310; 314; 330; 331; 350; 360; 361; 362; 363;**  
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(Contd. of page 7)

### SECTION 11: Toxicological information

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

· **Acute toxicity**

There are no data available on the preparation itself.

The mixture is classified under Regulation No 1272/2008 = CLP (EU-GHS) Regulation and the toxicological hazards. See Section 3 and 15 for details.

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

**1174522-20-3 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics\***

Oral	LD50	>15,000 mg/kg (rat (Ratte))
Dermal	LD50	>3,000 mg/kg (kan)

Dermal	LD50	>3,000 mg/kg (kan)
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**98-73-7 4-tert-butylbenzoic acid**

Oral	LD50	735 mg/kg (rat (Ratte))
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**21041-93-0 Cobaltdihydroxid**

Oral	LD50	1,060 mg/kg (rat (Ratte))
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**107-98-2 1-methoxypropan-2-ol**

Oral	LD50	>5,000 mg/kg (rat (Ratte))
Dermal	LD50	13,500 mg/kg (rabbit (Kaninchen))
Inhalative	LC50/4 h	25 mg/l (rat (Ratte))

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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**  
May cause drowsiness or dizziness.
- **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.
- **Other observations:**  
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system.  
Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.  
Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Repeated or prolonged skin contact may lead to allergic contact dermatitis.  
The liquid splashed in the eyes may cause irritation and reversible damage.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

GB

(Contd. on page 9)



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(Contd. of page 8)

#### SECTION 12: Ecological information

##### 12.1 Toxicity

##### Aquatic toxicity:

**1174522-20-3 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics\***

EC50/72h >1,000 mg/l (algae)

LC/EC50 (72 h) >1,000 mg/l (Onchorhynchus mykiss (Regenbogenforelle))

**136-52-7 cobalt(II) 2-ethylhexanoate**

EC50/96h 0.1-1 mg/l (fish)

**107-98-2 1-methoxypropan-2-ol**

LC50/96h >4,000 mg/l (Leuciscus idus(Goldorfe)) (Fische)

20,800 mg/l (Pimephales promelas (Elritze)) (Fische)

EC50/48h >100 mg/l (wfl) (Daphnien)

LC/EC50 (72 h) >100 mg/l (algae, different)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

##### 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

##### 12.7 Other adverse effects

Remark: Harmful to fish

##### Additional ecological information:

##### General notes:

Harmful to aquatic organisms

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

#### SECTION 13: Disposal considerations

##### 13.1 Waste treatment methods

##### Recommendation

Must not be disposed of together with household garbage. Do not allow product to enter into sewage systems.

Hand over to disposers of hazardous waste.

##### Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

#### SECTION 14: Transport information

##### 14.1 UN number or ID number

ADR, ADN, IMDG

Void

IATA

UN1263

##### 14.2 UN proper shipping name

ADR, ADN, IMDG

Void

(Contd. on page 10)

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 Nr. 301; 302; 310; 314; 330; 331; 350; 360; 361; 362; 363;  
 364; 365; 371; 374; 378; 381; 382;

(Contd. of page 9)

· IATA	PAINT
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG	
· Class	Void
· IATA	
	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR, IMDG	Void
· IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Remarks:	> 450 ltr.: UN-1263 PAINT, 3, III, (D/E)
· Transport in accordance with ADR/RID, IMDG and ICAO/IATA.	
· IMDG	
· Remarks:	> 30 ltr.: UN-1263 PAINT, 3, III
· UN "Model Regulation":	Void

### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- 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
- National regulations
- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- VOC (EU) 440-640 g/l
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

GB

(Contd. on page 11)

## Safety data sheet

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(Contd. of page 10)

### SECTION 16: Other information

The information of this SDS is based on the present state of our knowledge and on current EU and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product : it is not to be considered as a guarantee of the products' properties.

- **Relevant phrases**

Danger notes of the contents substances listed under item 3.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H360 May damage fertility or the unborn child.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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

Physical hazard: Flash point (° C)

Health and environmental hazards: calculation method

- **Department issuing data specification sheet:** department product safety

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

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

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 1A: Reproductive toxicity – Category 1A

Repr. 2: Reproductive toxicity – Category 2

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

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Asp. Tox. 1: Aspiration hazard – Category 1

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

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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

- **\* Data compared to the previous version altered.**

Paragraphs, which were changed compared to the former version, are marked with "\*" on the left margin.