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

Printing date 08.07.2021 *version: 25* *Revision: 08.07.2021*

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

· **1.1 Product identifier**

· **Trade name REVELL EMAIL COLOR (Glänzend)**
Nr. 04; 07; 12; 30; 31; 34; 50; 51; 52; 54; 61; 62; 80

· **Article number:**
Artikel-Nr. Dreisol:
R3280-9104; R3280-9107; R3280-1112; R3280-2130; R3280-3131;
R3280-3134; R3280-5150; R3280-5151; R3280-5152; R3280-5154;
R3280-6161: R3280-6162; R3280-8180

Revell-Nr.:
32104; 32107; 32112; 32130; 32131; 32134; 32150;
32151; 32152; 32154; 32161; 32162; 32180
Color set:
32342

· **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:**
Dreisol Coatings GmbH & Co.KG. Tel.: +49(0)5742-9300-0(Zentrale)
Industriestraße 4 Fax : +49(0)5742-9300-49
D-32361 Pr. Oldendorf-Bad Holzhausen E-Mail: mail@dreisol.de
http://www.dreisol.de

Revell GmbH
Henschelstr. 20-30 Tel.: +49(0)5223-965-0
D-32257 Bünde http://www.revell.de

· **Informing department:**
department product safety Tel.: +49(0)5742/9300-41
e-mail adress of competent person: sdb@dreisol.de
· **1.4 Emergency telephone number:**
NHS (National Health Service) 111
Poison Information Centre (GIZ-Nord): 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.

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· ***2.2 Label elements***
· ***Labelling according to Regulation (EC) No 1272/2008***
The product is classified and labelled according to the CLP regulation.
· ***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 Neodecanoic acid, cobalt salt, cobalt(II) 2-ethylhexanoate. 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*	*10-12.5%*

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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%*
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%*
CAS: 22464-99-9 *EINECS: 245-018-1* *Reg.nr.: 01-2119979088-21*	*2-Ethylhexansäure, Zirconiumsalz* *Repr. 2, H361*	*0.1-0.2%*
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%*

· ***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*** *CO2, 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.*

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· ***Additional information***
Cool closed containers exposed to fire with water.
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.
Vapours are heavier than air and may spread along floors. Vapours may from 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/m³, 150 ppm* *Long-term value: 375 mg/m³, 100 ppm* *Sk*
IOELV (European Union)	*Short-term value: 568 mg/m³, 150 ppm* *Long-term value: 375 mg/m³, 100 ppm* *Skin*

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· **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/m³ (General population, long-term exposure)
		1,500 mg/m³ (Workers, long-term exposure)
64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy		
Oral	DNEL	26 mg/kg/day (General population, long-term exposure)
Dermal	DNEL	26 mg/kg/day (General population, long-term exposure)
		44 mg/kg/day (Workers, long-term exposure)
Inhalative	DNEL	71 mg/m³ (General population, long-term exposure)
		330 mg/m³ (Workers, long-term exposure)
		570 mg/m³ (Workers, short-term exposure)
		570 mg/m³ (General population, short-term exposure)
136-52-7 cobalt(II) 2-ethylhexanoate		
Oral	DNEL	0.0558 mg/kg/day (General population, long-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)

· **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.
· **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 manfacturer 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.

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· ***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.
· **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**	80 s (DIN 53211/4)
· **or:**	
· **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**	1.09 g/cm³ (DIN/ISO 2811)
· **Relative density**	Not determined.
· **Vapour density**	Not determined.
· **9.2 Other information**	The values of specfic gravity and viscosity are an orienting information.
· **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:**	40-48 %
· **Water:**	0.0 %
· **VOC (EG)**	440-540 g/l
· **Solids content:**	52-60 %
· **Evaporation rate**	Not determined.
· **Information with regard to physical hazard classes**	
· **Explosives**	Void

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· **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.

*
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)
64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy		
Oral	LD50	>2,000 mg/kg (rat (Ratte))
Dermal	LD50	>2,000 mg/kg (rabbit (Kaninchen))
Inhalative	LC50/4 h	>13,100 mg/l (rat (Ratte))
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))

· **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.

*
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))
64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy	
LC/EC/IC50	> 1-≤10 mg/l (algae)
	> 1-≤10 mg/l (fish)
	> 1-≤10 mg/l (microorganisms (Mikroorganismus))
	> 1-≤10 mg/l (invertebrates (Wirbellose))
NOEC	>0.1-1 mg/l (daphnia)
	>0.1-1 mg/l (fish)
136-52-7 cobalt(II) 2-ethylhexanoate	
EC50/96h	0.1-1 mg/l (fish)

· **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**
For information on endocrine disrupting properties see section 11.

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· ***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*
· ***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.*

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

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

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· ***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.*