

Material Safety Data Sheet

According to 91/155 EEC- ISO 11014-1

Printing date 02.11.2004

Reviewed on 01.11.2004

1 Identification of substance**. Product details****. Trade name Cap-elast Phase 1****. Application of the substance / the preparation** Coating material**. Manufacturer/Supplier:**

CAPAROL Farben Lacke Bautenschutz GmbH

Roßdörfer Straße 50, 64372 Ober-Ramstadt

Tel.: 06154/71-0

Fax.: siehe Auskunftgebender Bereich

Internet: www.caparol.de

Neue

Bundesländer: Tel.: 030/63946-252

Fax.: 030/63946-400

. Informing department:

Technical Department/Caparol Division: Phone ++49/6154/71-1710

Fax ++49/6154/71-1351

tech-auskunft@caparol.de

. Emergency information: 0049(0)6154/71-202**2 Composition/Data on components:****. Chemical characterization****. Description:**

Water based emulsion paint containing mineral fillers, synthetic resin emulsion and water

. Dangerous components:

CAS: 107-41-5 2-methylpentane-2,4-diol

< 1,5%

EINECS: 203-489-0 Xi; R 36/38

CAS: 27138-31-4 Dipropylene glycol, dibenzoate

< 1,5%

EINECS: 248-258-5 N; R 51/53

. Additional information See section 8.**3 Hazards identification****. Hazard designation:** void**. Information pertaining to particular dangers for man and environment**

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

4 First aid measures**. After skin contact**

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do not use solvents or thinners.

. After eye contact

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

. After swallowing

If accidentally swallowed, obtain immediate medical attention. Keep at rest. Do not induce vomiting.

5 Fire fighting measures**. Suitable extinguishing agents**

alcohol resistant foam, carbon dioxide, powders, water spray

Do not allow fire extinguishing water to enter drains or water courses.

. For safety reasons unsuitable extinguishing agents

Water with a full water jet.

. Special hazards caused by the material, its products of combustion or flue gases:

Fire will produce smoke. Exposure to decomposition products may cause a health hazard.

(Contd. on page 2)

Material Safety Data Sheet

According to 91/155 EEC- ISO 11014-1

Printing date 02.11.2004

Reviewed on 01.11.2004

Trade name *Cap-elast Phase 1*

(Contd. of page 1)

- . **Protective equipment:**
Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water.
- . **Additional information**
Aqueous liquid product: doesn't burn as long as water available.

6 Accidental release measures

- . **Person-related safety precautions:**
Refer to protective measures listed in sections 7 and 8.
- . **Measures for environmental protection:**
May not be emptied into drains. In case of contamination of rivers, lakes or drains the local authorities must be contacted in accordance with the local requirements.
- . **Measures for cleaning/collecting:**
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid the use of solvents.

7 Handling and storage

- . **Handling** Provide adequate ventilation during and after application.
- . **Information for safe handling:**
No special precautions necessary if used correctly.
- . **Information about protection against explosions and fires:**
The product is not flammable
- . **Storage**
- . **Requirements to be met by storerooms and containers:**
Never use pressure to empty: the container is not a pressure vessel. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- . **Information about storage in one common storage facility:**
Not to be stored together with oxidizing agents, strongly alkaline and strongly acid materials.
- . **Further information about storage conditions:**
Always keep in container of same material as the original one.
Observe label precautions.
Store in a well ventilated place.
Protect from heat and direct sunlight.
Protect from frost.

8 Exposure controls and personal protection

- . **Components with critical values that require monitoring at the workplace:**
107-41-5 2-methylpentane-2,4-diol (< 1,5%)
MAK (Germany) 49 mg/m³, 10 ppm
DFG, TRGS 901-102
- . **Additional information:**
The lists that were valid during compilation form the basis.
- . **Personal protective equipment**
- . **Breathing equipment:**
Application only by roller or brush. No spray application.
- . **Protection of hands:** barrier cream
- . **Eye protection:** If danger of splashes exists: Carry protective glasses .

9 Physical and chemical properties:

- . **General Information**

Form: Fluid

(Contd. on page 3)

Material Safety Data Sheet

According to 91/155 EEC- ISO 11014-1

Printing date 02.11.2004

Reviewed on 01.11.2004

Trade name *Cap-elast Phase 1*

(Contd. of page 2)

Colour: White
Smell: Characteristic

. **Change in condition**

Melting point/Melting range: Not applicable
Boiling point/Boiling range: 100°C

- . **Flash point:** Not applicable
- . **Self-inflammability:** Product is not self-igniting.
- . **Danger of explosion:** Product is not explosive.
- . **Density at 20°C** ca. 1,2 g/cm³
- . **Solubility in / Miscibility with Water:** Fully miscible
- . **pH-value at 20°C:** ca. 6,5 - 8
- . **Viscosity:** viscous

10 Stability and reactivity

- . **Thermal decomposition / conditions to be avoided:**
Stable under recommended storage and handling conditions (See section 7).
- . **Dangerous products of composition:**
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide and smoke.

11 Toxicological information

The product as such has not been tested, but has been classified accordance to the classical methods (calculation accordance to the methods of the regulation covering hazardous material).
If handled properly no health hazardous effects have come to our notice.

12 Ecological information:

There are no data available on the preparation itself.
Do not allow into drains, water courses or soil.

13 Disposal considerations

- . **Product:**
Liquid product may not be dumped with household waste. May not be emptied into drains.
- . **Recommendation**
Liquid remnants of material should harden and then disposed of as construction site, hardened paints or as household waste.
- . **European waste catalogue**
08 01 12 waste paint and varnish other than those mentioned in 08 01 11
- . **Uncleaned packagings:**
Only completely emptied clean containers with hardened remnants should be recycled. Not hardened remnants should be disposed in the same way as the product.

14 Transport information

- . **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**
- . **ADR/RID-GGVS/E Class:** -
- . **Maritime transport IMDG/GGVSea:**
- . **IMDG/GGVSea Class:** -

(Contd. on page 4)

Material Safety Data Sheet

According to 91/155 EEC- ISO 11014-1

Printing date 02.11.2004

Reviewed on 01.11.2004

Trade name *Cap-elast Phase 1*

(Contd. of page 3)

- . **Air transport ICAO-TI and IATA-DGR:**
- . **ICAO/IATA Class:** -

15 Regulatory information

- . **Designation according to EC guidelines:**
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).
- . **Safety phrases:**
Keep out of reach of children.
In case of contact with eyes, rinse immediately with plenty of water.
Do not allow into drains, water courses or soils.
- . **Special designation of certain preparations:**
Safety data sheet available for professional user on request.
- . **National regulations** Product code for laquers and paints: M-DF02 (Germany)
- . **Water hazard class:**
Water hazard class 1 (VwVwS): slightly hazardous for water.
- . **Other regulations, limitations and prohibitive regulations**
German UVV "Application of Coatings", VBG 23 of 01.10.90.

16 Other information:

The information of this MSDS is based on the present state of our knowledge and current EEC and national laws, as the user's working conditions are beyond our knowledge and control. The product is not to be used for other purposes other 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 MSDS 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.

Substitutes data sheet from: 24.03.2000

Changes in section: 1 - 3, 8, 12, 13 und 15

- . **Relevant R-phrases**

36/38 Irritating to eyes and skin.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

EU

Material Safety Data Sheet

According to 91/155 EEC- ISO 11014-1

Printing date 28.10.2004

Reviewed on 28.10.2004

1 Identification of substance**. Product details****. Trade name** *Cap-elast Phase 2 und CX Cap-elast Phase 2***. Application of the substance / the preparation** Decorative protective coating**. Manufacturer/Supplier:**

CAPAROL Farben Lacke Bautenschutz GmbH

Roßdörfer Straße 50, 64372 Ober-Ramstadt

Tel.: 06154/71-0

Fax.: siehe Auskunftgebender Bereich

Internet: www.caparol.de

Neue

Bundesländer: Tel.: 030/63946-252

Fax.: 030/63946-400

. Informing department:

Technical Department/Caparol Division: Phone ++49/6154/71-1710

Fax ++49/6154/71-1351

tech-auskunft@caparol.de

. Emergency information: 0049(0)6154/71-202**2 Composition/Data on components:****. Chemical characterization****. Description:**

Water based emulsion paint containing mineral fillers, synthetic resin emulsion and water

. Dangerous components: No indications required**3 Hazards identification****. Hazard designation:** void**. Information pertaining to particular dangers for man and environment**

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

4 First aid measures**. After skin contact**

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do not use solvents or thinners.

. After eye contact

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

. After swallowing

If accidentally swallowed, obtain immediate medical attention. Keep at rest. Do not induce vomiting.

5 Fire fighting measures**. Suitable extinguishing agents**

alcohol resistant foam, carbon dioxide, powders, water spray

Do not allow fire extinguishing water to enter drains or water courses.

. For safety reasons unsuitable extinguishing agents

Water with a full water jet.

. Special hazards caused by the material, its products of combustion or flue gases:

Fire will produce smoke. Exposure to decomposition products may cause a health hazard.

. Protective equipment:

Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water.

. Additional information

Aqueous liquid product: doesn't burn as long as water available.

(Contd. on page 2)

Material Safety Data Sheet

According to 91/155 EEC- ISO 11014-1

Printing date 28.10.2004

Reviewed on 28.10.2004

Trade name *Cap-elast Phase 2 und CX Cap-elast Phase 2*

(Contd. of page 1)

6 Accidental release measures

- . **Person-related safety precautions:**
Refer to protective measures listed in sections 7 and 8.
- . **Measures for environmental protection:**
May not be emptied into drains. In case of contamination of rivers, lakes or drains the local authorities must be contacted in accordance with the local requirements.
- . **Measures for cleaning/collecting:**
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid the use of solvents.

7 Handling and storage

- . **Handling** Provide adequate ventilation during and after application.
- . **Information for safe handling:**
No special precautions necessary if used correctly.
- . **Information about protection against explosions and fires:**
The product is not flammable
- . **Storage**
- . **Requirements to be met by storerooms and containers:**
Never use pressure to empty: the container is not a pressure vessel. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- . **Information about storage in one common storage facility:**
Not to be stored together with oxidizing agents, strongly alkaline and strongly acid materials.
- . **Further information about storage conditions:**
Always keep in container of same material as the original one.
Observe label precautions.
Store in a well ventilated place.
Protect from heat and direct sunlight.
Protect from frost.

8 Exposure controls and personal protection

- . **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.
- . **Additional information:**
The lists that were valid during compilation form the basis.
- . **Personal protective equipment**
- . **Breathing equipment:** Only during spraying without adequate removal by suction.
- . **Protection of hands:** barrier cream
- . **Eye protection:** If danger of splashes exists: Carry protective glasses .

9 Physical and chemical properties:. **General Information**

Form:	Fluid
Colour:	Different according to colour
Smell:	Characteristic

. **Change in condition**

Melting point/Melting range:	Not applicable
Boiling point/Boiling range:	100°C

- . **Flash point:** Not applicable

(Contd. on page 3)

Material Safety Data Sheet

According to 91/155 EEC- ISO 11014-1

Printing date 28.10.2004

Reviewed on 28.10.2004

Trade name *Cap-elast Phase 2 und CX Cap-elast Phase 2*

(Contd. of page 2)

- . **Self-inflammability:** Product is not self-igniting.
- . **Danger of explosion:** Product is not explosive.
- . **Density at 20°C** ca. 1,3 g/cm³
- . **Solubility in / Miscibility with**
- Water:** Fully miscible
- . **pH-value at 20°C:** ca. 7 - 8
- . **Viscosity:** viscous

10 Stability and reactivity

- . **Thermal decomposition / conditions to be avoided:**
Stable under recommended storage and handling conditions
(See section 7).
- . **Dangerous products of composition:**
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide and smoke.

11 Toxicological information

The product as such has not been tested, but has been classified accordance to the classical methods (calculation accordance to the methods of the regulation covering hazardous material).
Pigments used in the preparation are free from lead, cadmium, chromates, hardly soluble and therefore of low toxic relevance.
If handled properly no health hazardous effects have come to our notice.

12 Ecological information:

There are no data available on the preparation itself.
Do not allow into drains, water courses or soil.

13 Disposal considerations

- . **Product:**
Liquid product may not be dumped with household waste. May not be emptied into drains.
- . **Recommendation**
Liquid remnants of material should harden and then disposed of as construction site, hardened paints or as household waste.
- . **European waste catalogue**
08 01 12 waste paint and varnish other than those mentioned in 08 01 11
- . **Uncleaned packagings:**
Only completely emptied clean containers with hardened remnants should be recycled. Not hardened remnants should be disposed in the same way as the product.

14 Transport information

- . **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**
- . **ADR/RID-GGVS/E Class:** -
- . **Maritime transport IMDG/GGVSea:**
- . **IMDG/GGVSea Class:** -
- . **Air transport ICAO-TI and IATA-DGR:**
- . **ICAO/IATA Class:** -

(Contd. on page 4)

Material Safety Data Sheet

According to 91/155 EEC- ISO 11014-1

Printing date 28.10.2004

Reviewed on 28.10.2004

Trade name *Cap-elast Phase 2 und CX Cap-elast Phase 2*

(Contd. of page 3)

15 Regulatory information**. Designation according to EC guidelines:**

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

. Safety phrases:

Keep out of reach of children.

In case of contact with eyes, rinse immediately with plenty of water.

In case of spray application: Do not breathe spray dust.

Do not allow into drains, water courses or soil.

. National regulations Product code for laquers and paints: M-DF02 (Germany)**. Water hazard class:**

Water hazard class 1 (VwVWS): slightly hazardous for water.

. Other regulations, limitations and prohibitive regulations

German UVV "Application of Coatings", VBG 23 of 01.10.90.

16 Other information:

The information of this MSDS is based on the present state of our knowledge and current EEC and national laws, as the user's working conditions are beyond our knowledge and control. The product is not to be used for other purposes other 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 MSDS 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.

Substitutes data sheet from: 24.03.2000 und 07.04.2000

Changes in section: 1, 3, 12 und 13

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2007

Revision: 25.06.2007

1 Identification of substance**. Product details****. Trade name Cap-elast Phase 2-W****. Application of the substance / the preparation** Coating material**. Manufacturer/Supplier:**

CAPAROL Farben Lacke Bautenschutz GmbH

Roßdörfer Straße 50, 64372 Ober-Ramstadt

Phone: ++49/6154/71-0 Fax: see Informing department

Internet: www.caparol.de

For Eastern Europe: Phone ++49/30/63946-252 Fax ++49/30/63946-400

. Informing department:

Material safety data sheet: sds@daw.de

Technical Department/Caparol Division: Phone ++49/6154/71-1710

Fax ++49/6154/71-1351

tech-auskunft@caparol.de

. Emergency information: 0049/ (0) 6154/71-202**2 Hazards identification****. Hazard designation:** void**. Information pertaining to particular dangers for man and environment**

Keep out of reach of children. If swallowed, seek medical advice immediately and show the container or label (intestinal bacteria can be affected). Do not empty into drains, water courses or into the ground.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3 Composition/information on ingredients**. Chemical characterization****. Description:**

Water based emulsion paint containing mineral fillers, synthetic resin emulsion and water - with Film protection.

. Dangerous components:

CAS: 27138-31-4 Dipropylene glycol, dibenzoate

< 1%

EINECS: 248-258-5 N; R 51/53

CAS: 3886-50-0 terbutryn

<0,01%

EINECS: 212-950-5 N; R 50/53

4 First aid measures**. After skin contact**

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do not use solvents or thinners.

. After eye contact

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

. After swallowing

If accidentally swallowed, obtain immediate medical attention. Keep at rest. Do not induce vomiting.

5 Fire fighting measures**. Suitable extinguishing agents**

alcohol resistant foam, carbon dioxide, powders, water spray

Do not allow fire extinguishing water to enter drains or water courses.

. For safety reasons unsuitable extinguishing agents

Water with a full water jet.

. Special hazards caused by the material, its products of combustion or flue gases:

Fire will produce smoke. Exposure to decomposition products may cause a health hazard.

(Contd. on page 2)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2007

Revision: 25.06.2007

Trade name *Cap-elast Phase 2-W*

(Contd. of page 1)

- . **Protective equipment:**
Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water.
- . **Additional information**
Aqueous liquid product: doesn't burn as long as water available.

6 Accidental release measures

- . **Person-related safety precautions:**
Refer to protective measures listed in sections 7 and 8.
- . **Measures for environmental protection:**
May not be emptied into drains. In case of contamination of rivers, lakes or drains the local authorities must be contacted in accordance with the local requirements.
- . **Measures for cleaning/collecting:**
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid the use of solvents.

7 Handling and storage

- . **Handling** Provide adequate ventilation during and after application.
- . **Information for safe handling:**
No special precautions necessary if used correctly.
- . **Information about protection against explosions and fires:**
The product is not flammable
- . **Storage**
- . **Requirements to be met by storerooms and containers:**
Never use pressure to empty: the container is not a pressure vessel. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- . **Information about storage in one common storage facility:**
Not to be stored together with oxidizing agents, strongly alkaline and strongly acid materials.
- . **Further information about storage conditions:**
Always keep in container of same material as the original one.
Observe label precautions.
Store in a well ventilated place.
Protect from heat and direct sunlight.
Protect from frost.

8 Exposure controls and personal protection

- . **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.
- . **Additional information:**
The lists that were valid during compilation form the basis.
- . **Personal protective equipment**
- . **Breathing equipment:**
Apply by brush or paint roller only. Do not use spraying equipment. No particular measures to be observed when following this advice.
- . **Protection of hands:** barrier cream
- . **Eye protection:** If danger of splashes exists: Carry protective glasses .

9 Physical and chemical properties:

- . **General Information**

Form: Fluid

(Contd. on page 3)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2007

Revision: 25.06.2007

Trade name *Cap-elast Phase 2-W*

(Contd. of page 2)

Colour: White
Smell: Characteristic

. **Change in condition**

Melting point/Melting range: Not applicable
Boiling point/Boiling range: 100°C

- . **Flash point:** Not applicable
- . **Self-inflammability:** Product is not self-igniting.
- . **Danger of explosion:** Product is not explosive.
- . **Density at 20°C** ca. 1,3 g/cm³
- . **Solubility in / Miscibility with Water:** water-thinnable
- . **pH-value at 20°C:** ca. 7,5 - 8
- . **Viscosity:** viscous

10 Stability and reactivity

- . **Thermal decomposition / conditions to be avoided:**
Stable under recommended storage and handling conditions (See section 7).
- . **Dangerous products of composition:**
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide and smoke.

11 Toxicological information

The product as such has not been tested, but has been classified accordance to the classical methods (calculation accordance to the methods of the regulation covering hazardous material).
 If handled properly no health hazardous effects have come to our notice.

12 Ecological information:

There are no data available on the preparation itself.
 Do not allow into drains, water courses or soil.

- . **Acquatic toxicity:**
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13 Disposal considerations

- . **Product:**
Liquid product may not be dumped with household waste. May not be emptied into drains.
- . **Recommendation**
Liquid remnants of material should harden and then disposed of as construction site, hardened paints or as household waste.
- . **European waste catalogue**
08 01 12 waste paint and varnish other than those mentioned in 08 01 11
- . **Uncleaned packagings:**
Only completely emptied clean containers with hardened remnants should be recycled. Not hardened remnants should be disposed in the same way as the product.

14 Transport information

- . **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**
- . **ADR/RID-GGVS/E Class:** -

(Contd. on page 4)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2007

Revision: 25.06.2007

Trade name **Cap-elast Phase 2-W**

(Contd. of page 3)

- . Maritime transport IMDG/GGVSea:
- . IMDG/GGVSea Class: -
- . Air transport ICAO-TI and IATA-DGR:
- . ICAO/IATA Class: -

15 Regulatory information

- . **Designation according to EC guidelines:**
The product has been classified and labelled in accordance with EU Directives / Ordinance on Hazardous Materials (GefStoffV)
- . **Risk phrases:**
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- . **Safety phrases:**
2 Keep out of the reach of children.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with plenty of soap and water.
29 Do not empty into drains.
- . **Special designation of certain preparations:**
- . **Special designation of certain preparations:**
If swallowed, seek medical advice immediately to avoid harm to the intestinal bacteria.
Apply by brush or paint roller only.
- . **National regulations** Product code for laquers and paints: M-DF02 F (Germany)
- . **Water hazard class:**
Water hazard class 1 (VwVwS): slightly hazardous for water.
- . **Other regulations, limitations and prohibitive regulations**
German trade association rules - BGR 500 chapters 2.29 processing coating materials.

16 Other information:

The information of this MSDS is based on the present state of our knowledge and current EEC and national laws, as the user's working conditions are beyond our knowledge and control. The product is not to be used for other purposes other 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 MSDS 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.

Substitutes data sheet from: 01.06.2006

Changes in section: 2, 3, 8, 12, 15 und 16

- . **Relevant R-phrases**
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.