

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



Article No.: 1564  
Print date: 14.08.2023  
Version: 7

DOWACOAT FG Primer  
Revision date: 30.06.2023  
Issue date: 30.06.2023

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

1.1. **product identifiers**

Article No. (manufacturer/supplier) 1564  
Trade name/designation DOWACOAT FG Primer  
Typ 3150

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

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

**supplier (manufacturer/importer/downstream user/distributor)**

Eclatin AG  
Lack- und Farbenfabrik Telephone: +41 32 622 41 41  
Bürenstrasse 131 Telefax: +41 32 623 91 23  
CH-4574 Lüsslingen

**Department responsible for information:**

Labor  
E-mail info@eclatin.ch

1.4. **Emergency telephone number**

Emergency telephone number +41 32 622 41 41  
Toxikologisches Zentrum 145 (+41 44 251 51 51)

**SECTION 2: Hazards identification**

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

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

2.2. **Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms**



**Warning**

**Hazard statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.  
P280 Wear protective gloves and eye/face protection.  
P391 Collect spillage.

**Hazard components for labelling**

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight  $\leq 700$   
Kaschuschalenöl, oligomere  
1,6-hexanediol diglycidyl ether

**Supplemental hazard information**

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3. **Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

3.2. **Mixtures**

**Description** epoxy resin combination

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**Classification according to Regulation (EC) No 1272/2008 [CLP]**

EC No. CAS No. Index No.	REACH No. Designation classification // Remark	weight-%
216-823-5 1675-54-3 603-073-00-2	01-2119456619-26 reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700 Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411 Specific concentration limit (SCL): Eye Irrit. 2 H319 >= 5 / Skin Irrit. 2 H315 >= 5	60 - 80
500-210-7 68413-24-1	Kaschuschalenöl, oligomere Skin Sens. 1 H317	15 - 25
240-260-4 16096-31-4	01-2119463471-41 1,6-hexanediol diglycidyl ether Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412	10 - 15

**Additional information**

Full text of classification: see section 16

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

**In case of inhalation**

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

**Following skin contact**

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

**After eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

**Following ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

**4.2. Most important symptoms and effects, both acute and delayed**

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

**Unsuitable extinguishing media**

strong water jet

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

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

**5.3. Advice for firefighters**

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

**SECTION 6: Accidental release measures**

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

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

**6.3. Methods and material for containment and cleaning up**

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

**6.4. Reference to other sections**

Observe protective provisions (see section 7 and 8).

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advices on safe handling**

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

**Further information**

Vapours are heavier than air. Vapours form explosive mixtures with air.

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

**Requirements for storage rooms and vessels**

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Further information on storage conditions**

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

**7.3. Specific end use(s)**

Observe technical data sheet. Observe instructions for use.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limit values:**

not applicable

**DNEL:**

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight  $\leq 700$

Index No. 603-073-00-2 / EC No. 216-823-5 / CAS No. 1675-54-3

DNEL acute dermal, short-term (systemic), Workers: 8,33 mg/kg bw/day

DNEL long-term dermal (systemic), Workers: 8,33 mg/kg bw/day

DNEL acute inhalative (systemic), Workers: 12,25 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 12,25 mg/m<sup>3</sup>

DNEL long-term oral (repeated), Consumer: 0,75 mg/kg bw/day

DNEL acute dermal, short-term (systemic), Consumer: 3,571 mg/kg bw/day

DNEL long-term dermal (systemic), Consumer: 3,571 mg/kg

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DNEL acute inhalative (systemic), Consumer: 0,75 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 0,75 mg/m<sup>3</sup>  
DNEL short-term oral (systemic), Consumer: 0,75 mg/kg bw/day

1,6-hexanediol diglycidyl ether

EC No. 240-260-4 / CAS No. 16096-31-4

DNEL long-term dermal (local), Workers: 22,6 µg/cm<sup>2</sup>  
DNEL long-term dermal (systemic), Workers: 2,8 mg/kg bw/day  
DNEL long-term inhalative (local), Workers: 0,44 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 4,9 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 0,83 mg/kg bw/day  
DNEL acute dermal, short-term (local), Consumer: 13,6 µg/cm<sup>2</sup>  
DNEL acute dermal, short-term (systemic), Consumer: 1,7 mg/kg bw/day  
DNEL long-term dermal (local), Consumer: 13,6 µg/cm<sup>2</sup>  
DNEL long-term dermal (systemic), Consumer: 1,7 mg/kg bw/day  
DNEL long-term inhalative (local), Consumer: 0,27 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 2,9 mg/m<sup>3</sup>  
DNEL short-term oral (systemic), Consumer: 0,83 mg/kg bw/day

**PNEC:**

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

Index No. 603-073-00-2 / EC No. 216-823-5 / CAS No. 1675-54-3

PNEC aquatic, freshwater: 0,006 mg/L  
PNEC aquatic, marine water: 0,0006 mg/L  
PNEC aquatic, intermittent release: 0,018 mg/L  
PNEC sediment, freshwater: 0,996 mg/kg  
PNEC sediment, marine water: 0,0996 mg/kg  
PNEC, soil: 0,196 mg/kg  
PNEC sewage treatment plant (STP): 10 mg/L  
PNEC Secondary Poisoning: 11 mg/kg

1,6-hexanediol diglycidyl ether

EC No. 240-260-4 / CAS No. 16096-31-4

PNEC aquatic, freshwater: 0,0115 mg/L  
PNEC aquatic, marine water: 1,15 µg/L  
PNEC aquatic, intermittent release: 0,115 mg/L  
PNEC sediment, freshwater: 0,283 mg/kg  
PNEC sediment, marine water: 0,283 mg/kg

**8.2. Exposure controls**

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

**Personal protection equipment**

**Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

**Hand protection**

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

**Eye/face protection**

Wear closely fitting protective glasses in case of splashes.

**Body protection**

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

**Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

**Environmental exposure controls**

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state:</b>	Liquid
<b>Colour:</b>	refer to label
<b>Odour:</b>	characteristic
<b>Odour threshold:</b>	not applicable
<b>Melting point/freezing point:</b>	not applicable
<b>Initial boiling point and boiling range:</b>	not applicable
<b>Flammability:</b>	Combustible liquid.
<b>Lower and upper explosion limit:</b>	
Lower explosion limit:	0.8 Vol-%
Upper explosion limit:	not applicable
<b>Flash point:</b>	200 °C
	Method: DIN 53213
<b>Auto-ignition temperature:</b>	not applicable
<b>Decomposition temperature:</b>	not applicable
<b>pH at 20 °C:</b>	not applicable
<b>Cinematic viscosity (40°C):</b>	13552.58 mm <sup>2</sup> /s
<b>Viscosity at 20 °C:</b>	15000 mPa·s
	Method: 1/D 1250
<b>Solubility(ies):</b>	
<b>Water solubility at 20 °C:</b>	insoluble
<b>Partition coefficient: n-octanol/water:</b>	see section 12
<b>Vapour pressure at 20 °C:</b>	not applicable
<b>Density and/or relative density:</b>	
<b>Density at 20 °C:</b>	1.11 g/cm <sup>3</sup>
<b>Relative vapour density:</b>	not applicable
<b>particle characteristics:</b>	not applicable

### 9.2. Other information

<b>Solid content:</b>	100 weight-%
<b>solvent content:</b>	
Organic solvents:	0 weight-%
Water:	0 weight-%

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

### 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

### 10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

### 10.5. Incompatible materials

not applicable

### 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

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## SECTION 11: Toxicological information

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

#### Acute toxicity

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight  $\leq 700$

oral, LD50, Rat: 11400 mg/kg

dermal, LD50, Rabbit: 23000 mg/kg

1,6-hexanediol diglycidyl ether

oral, LD50, Rat: 2900 mg/kg

Method: OECD 401

dermal, LD50, Rat: > 2000 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: 0,035 mg/L (4 h)

#### Skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

Causes serious eye irritation.

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight  $\leq 700$

Skin, Rabbit (4 h)

Irritant

eyes, Rabbit

Irritant

1,6-hexanediol diglycidyl ether

Skin (4 h)

No data available

eyes

No data available

#### Respiratory or skin sensitisation

May cause an allergic skin reaction.

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight  $\leq 700$

Skin:

No data available

Respiratory system:

No data available

1,6-hexanediol diglycidyl ether

Respiratory system:

No data available

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight  $\leq 700$

Germ cell mutagenicity; Evaluation positive

Method: OECD 471 (Ames test)

Carcinogenicity; Evaluation negative

Method: OECD 453

Rat; oral; 2 years; 7 days per week

Reproductive toxicity

Method: OECD 416

Rat; oral; 540 mg/kg NOEL

Germ cell mutagenicity; Evaluation positive

Method: OECD 476

In vitro gene mutation test on mammalian cells

Germ cell mutagenicity; Evaluation negative

Method: OECD 478

Genetic Toxicology: Rodent dominant lethal test

Carcinogenicity; Evaluation negative

Method: OECD 453

Rat; dermal; 2 years; 5 days per week

teratogenicity

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Method: OECD 414  
Rat, female; >540 mg/kg NOEL  
teratogenicity  
Method: EPA CFR  
Rabbit, female; > 300 mg/kg NOEL  
teratogenicity  
Method: OECD 414  
Rabbit, female; 180 mg/kg NOAEL  
1,6-hexanediol diglycidyl ether  
Germ cell mutagenicity  
No data available  
Carcinogenicity  
No data available  
Reproductive toxicity  
No data available

**STOT-single exposure; STOT-repeated exposure**

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight  $\leq$  700  
Specific target organ toxicity (single exposure)  
No data available  
Specific target organ toxicity (repeated exposure)  
No data available

1,6-hexanediol diglycidyl ether  
Specific target organ toxicity (single exposure)  
No data available  
Specific target organ toxicity (repeated exposure)  
No data available

**Aspiration hazard**

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight  $\leq$  700  
Aspiration hazard  
No data available  
1,6-hexanediol diglycidyl ether  
Aspiration hazard  
No data available

**Practical experience/human evidence**

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

**Overall assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**11.2. Information on other hazards**

**Endocrine disrupting properties**

No information available.

**SECTION 12: Ecological information**

Classification according to Regulation (EC) No 1272/2008 [CLP]  
Do not allow to enter into surface water or drains.

**12.1. Toxicity**

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight  $\leq$  700  
Fish toxicity, LC50, Leuciscus idus (golden orfe): 2 mg/L (96 h)  
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 1,8 mg/L (48 h)  
Fish toxicity, EC50, Leuciscus idus (golden orfe): 3,6 mg/L (96 h)  
Fish toxicity, EC50, Selenastrum capricornutum: 220 mg/L (96 h)  
Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 0,3 mg/L (21 d)  
Algae toxicity, EC50, Scenedesmus capricornutum (Süßwasserlge): 9,4 mg/L (72 h)

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Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 2 mg/L (96 h)

1,6-hexanediol diglycidyl ether

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 30 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50: 47 mg/L (48 h)

Method: OECD 202

Algae toxicity, ErC50: 23,1 mg/L (48 h)

#### Long-term Ecotoxicity

Toxic to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight  $\leq$  700

Biodegradation: 5 percent (28 d); Evaluation Not readily biodegradable (according to OECD criteria)

Method: OECD 301F

1,6-hexanediol diglycidyl ether

Biodegradation:

No data available

#### 12.3. Bioaccumulative potential

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight  $\leq$  700

Distribution coefficient n-octanol/water (log KOW):

No data available

1,6-hexanediol diglycidyl ether

Distribution coefficient n-octanol/water (log KOW):

No data available

#### Bioconcentration factor (BCF)

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight  $\leq$  700

Bioconcentration factor (BCF): 31

1,6-hexanediol diglycidyl ether

Bioconcentration factor (BCF): 3,57

#### 12.4. Mobility in soil

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight  $\leq$  700

soil:

No data available

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Endocrine disrupting properties

No information available.

#### 12.7. Other adverse effects

No information available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Appropriate disposal / Product

##### Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation.

##### List of proposed waste codes/waste designations in accordance with EWC

080111\* Waste paint and varnish containing organic solvents or other dangerous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

##### Appropriate disposal / Package

##### Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

### SECTION 14: Transport information



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- 14.1. **UN number or ID number**  
UN 3082
- 14.2. **UN proper shipping name**  
Land transport (ADR/RID): Environmentally hazardous substance, liquid, n.o.s.  
(BISPHENOL A EPOXY RESIN)  
Sea transport (IMDG): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(BISPHENOL A EPOXY RESIN)  
Air transport (ICAO-TI / IATA-DGR): Environmentally hazardous substance, liquid, n.o.s.  
(BISPHENOL A EPOXY RESIN)
- 14.3. **Transport hazard class(es)**  
9
- 14.4. **Packing group**  
III
- 14.5. **Environmental hazards**  
Land transport (ADR/RID) UMWELTGEFÄHRDEND  
Marine pollutant p / BISPHENOL A EPOXY RESIN
- 14.6. **Special precautions for user**  
Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.  
Advices on safe handling: see parts 6 - 8
- Further information**
- Land transport (ADR/RID)**  
Tunnel restriction code -
- Sea transport (IMDG)**  
EmS-No. F-A, S-F
- 14.7. **Maritime transport in bulk according to IMO instruments**  
No transport as bulk according IBC - Code.

**SECTION 15: Regulatory information**

- 15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- EU legislation**  
**Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]**  
VOC-value (in g/L): 4
- National regulations**
- Restrictions of occupation**  
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

15.2. **Chemical Safety Assessment**

**For the following substances of this mixture a chemical safety assessment has been carried out:**

EC No. CAS No.	Designation	REACH No.
216-823-5 1675-54-3	reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700	01-2119456619-26
240-260-4 16096-31-4	1,6-hexanediol diglycidyl ether	01-2119463471-41

**SECTION 16: Other information**

**Full text of classification in section 3**

Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

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Aquatic Chronic 3 / H412      Hazardous to the aquatic environment      Harmful to aquatic life with long lasting effects.

**Classification procedure**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Skin Irrit. 2	Skin corrosion/irritation	Calculation method.
Eye Irrit. 2	Serious eye damage/eye irritation	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.
Aquatic Chronic 2	Hazardous to the aquatic environment	Calculation method.

**Abbreviations and acronyms**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

**Further information**

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.