

Trade name: cds-Markierung traffic weiß

Version: 3 / GB

Date revised: 31.07.2025

Substance number: 18978

Replaces Version: 2 / GB

Print date: 31.07.2025

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

### **1.1. Product identifier**

cds-Markierung traffic weiß

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

#### **Use of the substance/preparation**

Coating material

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

#### **Address/Manufacturer**

cds Polymere GmbH & Co. KG

Gau-Bickelheimer Str. 72

55576 Sprendlingen/Rhh.

Telephone no. +49(6701) 9350-0

Fax no. +49(6701) 9350-50

Information provided by / telephone info@cds-polymere.de

### **1.4. Emergency telephone number**

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

## **SECTION 2: Hazards identification \*\*\***

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

#### **Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Repr. 1B	H360F
Aquatic Chronic 2	H411

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008  
For explanation of abbreviations see section 16.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

##### **Hazard pictograms**



##### **Signal word**

Danger

##### **Hazard statements**

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H360F	May damage fertility.

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H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P201 Obtain special instructions before use.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P308+P313 IF exposed or concerned: Get medical advice/ attention.  
 P501.a Dispose of contents/container to licensed disposal contractor and according to official state regulations.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains bis-[4-(2,3-epoxipropoxy)phenyl]propane; oxirane, mono[(C12-14-alkyloxy)methyl] derivs. Bisphenol-F-diglycidyl ether, reaction mass of isomers; 4-morpholinecarbaldehyde; Methyl 4-toluenesulfonate

**Supplemental information**

EUH205 Contains epoxy constituents. May produce an allergic reaction.

**Further supplemental information**

Restricted to professional users

**2.3. Other hazards**

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**SECTION 3: Composition/information on ingredients \*\*\*****3.2. Mixtures****Hazardous ingredients****bis-[4-(2,3-epoxipropoxy)phenyl]propane**

CAS No. 1675-54-3  
 EINECS no. 216-823-5  
 Registration no. 01-2119456619-26-XXXX  
 Concentration  $\geq$  25 < 50 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Skin Irrit. 2 H315  
 Skin Sens. 1 H317  
 Eye Irrit. 2 H319  
 Aquatic Chronic 2 H411

**Concentration limits (Regulation (EC) No. 1272/2008)**

Eye Irrit. 2 H319  $\geq$  5 %  
 Skin Irrit. 2 H315  $\geq$  5 %

**Bisphenol-F-diglycidyl ether, reaction mass of isomers**

CAS No. 9003-36-5  
 EINECS no. 701-263-0  
 Registration no. 01-2119454392-40-XXXX  
 Concentration  $\geq$  2,5 < 10 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Skin Irrit. 2 H315  
 Skin Sens. 1A H317  
 Aquatic Chronic 2 H411

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**oxirane, mono[(C12-14-alkyloxy)methyl] derivs.**

CAS No.	68609-97-2		
EINECS no.	271-846-8		
Registration no.	01-2119485289-22-XXXX		
Concentration	>= 1	< 10	%
Classification (Regulation (EC) No. 1272/2008)			
	Skin Irrit. 2	H315	
	Skin Sens. 1	H317	
	Repr. 1B	H360F	

**Methyl 4-toluenesulfonate**

CAS No.	80-48-8		
EINECS no.	201-283-5		
Registration no.	01-2120752485-49-XXXX		
Concentration	>= 1	< 3	%
Classification (Regulation (EC) No. 1272/2008)			
	Acute Tox. 4	H302	
	Skin Corr. 1C	H314	
	Eye Dam. 1	H318	
	Skin Sens. 1B	H317	

ATE	oral	341	mg/kg
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**4-morpholinecarbaldehyde**

CAS No.	4394-85-8		
EINECS no.	224-518-3		
Registration no.	01-2119987993-12-XXXX		
Concentration	>= 0,1	< 1	%
Classification (Regulation (EC) No. 1272/2008)			
	Skin Sens. 1B	H317	

**SECTION 4: First aid measures \*\*\*****4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

**After inhalation**

Ensure supply of fresh air. Remove affected person from danger area. Seek medical advice immediately. Give a Cortison spray at an early stage.

**After skin contact**

Wash off immediately with soap and water. Seek medical advice immediately.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

**After ingestion**

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

**Adhere to personal protective measures when giving first aid**

First aider: Pay attention to self-protection!

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

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Until now no symptoms known so far.

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

#### Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

## **SECTION 5: Firefighting measures \*\*\***

### 5.1. Extinguishing media

#### Suitable extinguishing media

Dry powder

#### Non suitable extinguishing media

Full water jet

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

In case of combustion evolution of dangerous gases possible. Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); Pyrolysis products

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

#### Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Observe manufacturer's / distributor's instructions.

## **SECTION 6: Accidental release measures \*\*\***

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

Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

### 6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Pick up with absorbent material. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of absorbed material in accordance with the regulations.

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

## **SECTION 7: Handling and storage \*\*\***

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid formation of aerosols. Perform filling operations only at stations with exhaust ventilation facilities. Provide suitable exhaust ventilation at the processing machines. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Keep container tightly closed.

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

### Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

### Hints on storage assembly

Do not store together with foodstuffs.

### Further information on storage conditions

Keep under lock and key or accessible only to specialists or people who are authorized.

## 7.3. Specific end use(s)

Read attached instructions before use.

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

### 8.1. Control parameters

#### Other information

Abbreviations: E = respirable part, A = alveoli absorbable part  
There are not known any further control parameters.

#### Derived No/Minimal Effect Levels (DNEL/DMEL)

##### bis-[4-(2,3-epoxipropoxy)phenyl]propane

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	8,3	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	12,3	mg/m <sup>3</sup>

##### 4-morpholinecarbaldehyde

Reference substance	4-morpholinecarbaldehyde	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	11,7	mg/kg/d

Type of value	4-morpholinecarbaldehyde Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	50,3	mg/m <sup>3</sup>

4-morpholinecarbaldehyde

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Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	13,3	mg/m <sup>3</sup>

**oxirane, mono[(C12-14-alkyloxy)methyl] derivs.**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	1	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	3,6	mg/m <sup>3</sup>

**Bisphenol-F-diglycidyl ether, reaction mass of isomers**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	104,15	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	29,39	mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC)****bis-[4-(2,3-epoxipropoxy)phenyl]propane**

Type of value	PNEC	
Type	Water	
Concentration	0,006	mg/l

Type of value	PNEC	
Type	Marine	
Concentration	0,0006	mg/l

Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,341	mg/kg

Type of value	PNEC	
Type	Marine sediment	
Concentration	0,034	mg/kg

Type of value	PNEC	
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Type	Sewage treatment plant (STP)	
Concentration	10	mg/l

Type of value	PNEC	
Type	Soil	
Concentration	0,065	mg/kg

**4-morpholinecarbaldehyde**

Reference substance	4-morpholinecarbaldehyde	
Type of value	PNEC	
Type	Saltwater	
Concentration	0,05	mg/l

Type of value	4-morpholinecarbaldehyde	
Type	PNEC	
Concentration	Water (intermittent release)	
	5	mg/l

Type of value	4-morpholinecarbaldehyde	
Type	PNEC	
Concentration	Freshwater sediment	
	2,69	mg/kg

Type of value	4-morpholinecarbaldehyde	
Type	PNEC	
Concentration	Marine sediment	
	0,269	mg/kg

Type of value	4-morpholinecarbaldehyde	
Type	PNEC	
Concentration	Soil	
	0,244	mg/kg

Type of value	4-morpholinecarbaldehyde	
Type	PNEC	
Concentration	Sewage treatment plant (STP)	
	2000	mg/l

**oxirane, mono[(C12-14-alkyloxy)methyl] derivs.**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,0072	mg/l

Type of value	PNEC	
Type	Marine	
Concentration	0,00072	mg/l

Type of value	PNEC	
Type	Freshwater sediment	
Concentration	307,16	mg/kg

Type of value	PNEC	
Type	Marine sediment	
Concentration	30,716	mg/kg

Type of value	PNEC	
Type	Soil	



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Concentration	61,42	mg/kg
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Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l

**Bisphenol-F-diglycidyl ether, reaction mass of isomers**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,003	mg/l

Type of value	PNEC	
Type	Marine	
Concentration	0,0003	mg/l

Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,294	mg/kg

Type of value	PNEC	
Type	Marine sediment	
Concentration	0,0294	mg/kg

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/kg

Type of value	PNEC	
Type	Soil	
Concentration	0,237	mg/kg

Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,0254	mg/l

**8.2. Exposure controls****General protective and hygiene measures**

Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

**Respiratory protection**

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Short term: filter apparatus, combination filter A-P2; The respiratory protection must comply with the relevant CEN standards.

**Hand protection**

Chemical resistant gloves  
 Appropriate Material nitrile  
 Material thickness  $\geq$  0,3 mm  
 Breakthrough time  $\geq$  480 min  
 Hand protection must comply with EN 374.  
 Check leak-tightness/impermeability prior to use.

**Eye protection**

Safety glasses with side protection shield; Face shield; Eye protection must comply with EN 166.



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**Body protection**

Clothing as usual in the chemical industry. Protective shoes; Personal protective clothing must comply with the relevant CEN standards.

**SECTION 9: Physical and chemical properties \*\*\*****9.1. Information on basic physical and chemical properties****Physical state**

liquid

**Odour**

characteristic

**Colour**

white

**Melting point**

Remarks not determined

**Freezing point**

Remarks not determined

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

Value > 200 °C  
Pressure 1013 hPa

**Flammability**

evaluation not determined

**Upper and lower explosive limits**

Remarks not determined

**Flash point**

Value > 100 °C

**Ignition temperature**

Remarks not determined

**Decomposition temperature**

Remarks not determined

**pH value**

Remarks Not applicable

**Viscosity**

Remarks not determined

**Solubility(ies)**

Remarks not determined

**Partition coefficient n-octanol/water (log value)**

Remarks not determined

**Vapour pressure**

Remarks not determined

**Density and/or relative density**

Value 1,68 g/ml  
Temperature 20 °C

**Relative vapour density**

Remarks not determined

**9.2. Other information****Odour threshold**

Remarks not determined

**Evaporation rate (ether = 1) :**

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Remarks not determined

**Solubility in water**

Remarks not determined

**Explosive properties**

evaluation not determined

**Oxidising properties**

Remarks not determined

**Other information**

None known

**SECTION 10: Stability and reactivity \*\*\*****10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

**10.2. Chemical stability**

No hazardous reactions known.

**10.3. Possibility of hazardous reactions**

No hazardous reactions known.

**10.4. Conditions to avoid**

No hazardous reactions known.

**10.5. Incompatible materials**

Reactions with strong oxidising agents. Reactions with strong acids. Reactions with strong alkalies.

**10.6. Hazardous decomposition products**

Toxic gases/vapours, Irritant gases/vapours

**SECTION 11: Toxicological information \*\*\*****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE > 10.000 mg/kg  
 Method calculated value (Regulation (EC) No. 1272/2008)  
 Remarks Based on available data, the classification criteria are not met.

**Acute oral toxicity (Components)****bis-[4-(2,3-epoxipropoxy)phenyl]propane**

Species rat  
 LD50 15000 mg/kg

**4-morpholinecarbaldehyde**

Species rat  
 > 7360 mg/kg  
 Method OECD 401

**oxirane, mono[(C12-14-alkyloxy)methyl] derivs.**

Species rat  
 LD50 26800 mg/kg

**Methyl 4-toluenesulfonate**

Species rat  
 LD50 341 mg/kg

**Bisphenol-F-diglycidyl ether, reaction mass of isomers**

Species rat

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LD50 &gt; 2000 mg/kg

**Acute dermal toxicity**

Remarks Based on available data, the classification criteria are not met.

**Acute dermal toxicity (Components)****bis-[4-(2,3-epoxipropoxy)phenyl]propane**Species rabbit  
LD50 23000 mg/kg**4-morpholinecarbaldehyde**Species rabbit  
LD50 > 18400 mg/kg  
Method OECD 402**oxirane, mono[(C12-14-alkyloxy)methyl] derivs.**Species rabbit  
LD50 > 4000 mg/kg**Bisphenol-F-diglycidyl ether, reaction mass of isomers**Species rat  
LD50 > 2000 mg/kg**Acute inhalational toxicity**

Remarks Based on available data, the classification criteria are not met.

**Acute inhalative toxicity (Components)****4-morpholinecarbaldehyde**Species rat  
LC50 > 5,3 mg/l  
Duration of exposure 4 h  
Administration/Form Dust/Mist  
Method OECD 403**oxirane, mono[(C12-14-alkyloxy)methyl] derivs.**Species rat  
LC0 > 0,15 mg/l  
Duration of exposure 7 h  
Administration/Form Vapors  
Remarks Based on available data, the classification criteria are not met.**oxirane, mono[(C12-14-alkyloxy)methyl] derivs.**

Remarks Saturation Concentration: No demonstrable toxic effect

**bis-[4-(2,3-epoxipropoxy)phenyl]propane**

Remarks Based on available data, the classification criteria are not met.

**bis-[4-(2,3-epoxipropoxy)phenyl]propane**

Remarks Saturation Concentration: No demonstrable toxic effect

**Bisphenol-F-diglycidyl ether, reaction mass of isomers**

Remarks Based on available data, the classification criteria are not met.

**Bisphenol-F-diglycidyl ether, reaction mass of isomers**

Remarks Expert judgement

**Skin corrosion/irritation**evaluation irritant  
Remarks The classification criteria are met.**Skin corrosion/irritation (Components)****bis-[4-(2,3-epoxipropoxy)phenyl]propane**Species rabbit  
evaluation irritant  
Method OECD 404**oxirane, mono[(C12-14-alkyloxy)methyl] derivs.**

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Species rabbit  
 evaluation irritant  
 Method OECD 404

**Methyl 4-toluenesulfonate**

evaluation corrosive  
 Method Expert judgement

**Bisphenol-F-diglycidyl ether, reaction mass of isomers**

Species rabbit  
 evaluation irritant  
 Method OECD 404

**Serious eye damage/irritation**

evaluation irritant  
 Remarks The classification criteria are met.

**Serious eye damage/irritation (Components)****bis-[4-(2,3-epoxipropoxy)phenyl]propane**

Species rabbit  
 evaluation irritant  
 Method OECD 405

**Methyl 4-toluenesulfonate**

evaluation corrosive  
 Method Expert judgement

**Sensitization**

evaluation May cause sensitization by skin contact.  
 Remarks The classification criteria are met.

**Sensitization (Components)****bis-[4-(2,3-epoxipropoxy)phenyl]propane**

Species mouse  
 evaluation sensitizing  
 Method OECD 429

**4-morpholinecarbaldehyde**

Species mouse  
 evaluation sensitizing  
 Method OECD 429

**oxirane, mono[(C12-14-alkyloxy)methyl] derivs.**

Species guinea pig  
 evaluation sensitizing  
 Method OECD 406

**Methyl 4-toluenesulfonate**

Species guinea pig  
 evaluation sensitizing  
 Method OECD 406

**Bisphenol-F-diglycidyl ether, reaction mass of isomers**

Species guinea pig  
 evaluation sensitizing  
 Method OECD 406  
 Source Buehler test

**Subacute, subchronic, chronic toxicity**

Remarks not determined

**Mutagenicity**

Remarks Based on available data, the classification criteria are not met.

**Reproductive toxicity**

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evaluation

May damage fertility.

Remarks

The classification criteria are met.

**Reproduction toxicity (Components)****oxirane, mono[(C12-14-alkyloxy)methyl] derivs.**

Route of exposure

oral

Species

rat

Dose

10

mg/kg/d

evaluation

May damage fertility.

Source

OECD 443

**Carcinogenicity**

Remarks

Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT)****Single exposure**

Remarks

Based on available data, the classification criteria are not met.

**Repeated exposure**

Remarks

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

**Experience in practice**

Inhalation may lead to irritation of the respiratory tract.

**Other information**

No toxicological data are available.

**SECTION 12: Ecological information \*\*\*****12.1. Toxicity****General information**

not determined

**Fish toxicity (Components)****bis-[4-(2,3-epoxipropoxy)phenyl]propane**

Species

rainbow trout (Oncorhynchus mykiss)

LC50

1,3

mg/l

Duration of exposure

96

h

Method

OECD 203

**4-morpholinecarbaldehyde**

Reference substance

4-morpholinecarbaldehyde

Species

golden orfe (Leuciscus idus)

LC50

&gt; 500

mg/l

Duration of exposure

96

h

Method

DIN 38412 / Part 15

**oxirane, mono[(C12-14-alkyloxy)methyl] derivs.**

Species

rainbow trout (Oncorhynchus mykiss)

LC50

&gt; 5000

mg/l

Duration of exposure

96

h

**oxirane, mono[(C12-14-alkyloxy)methyl] derivs.**

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Species	Bluegill ( <i>Lepomis macrochirus</i> )	
LC50	> 1800	mg/l
Duration of exposure	96 h	

**Bisphenol-F-diglycidyl ether, reaction mass of isomers**

Species	golden orfe ( <i>Leuciscus idus</i> )	
EC50	2,54	mg/l
Duration of exposure	96 h	

**Daphnia toxicity (Components)****bis-[4-(2,3-epoxipropoxy)phenyl]propane**

Species	Daphnia magna	
EC50	1,8	mg/l
Duration of exposure	48 h	
Method	OECD 202	

**bis-[4-(2,3-epoxipropoxy)phenyl]propane**

Species	Daphnia magna	
NOEC	0,3	mg/l
Duration of exposure	h	
Method	OECD 211	

**4-morpholinecarbaldehyde**

Reference substance	4-morpholinecarbaldehyde	
Species	Daphnia magna	
EC50	> 500	mg/l
Duration of exposure	48 h	

**Bisphenol-F-diglycidyl ether, reaction mass of isomers**

Species	Daphnia magna	
EC50	2,55	mg/l
Duration of exposure	48 h	
Method	OECD 202	

**oxirane, mono[(C12-14-alkyloxy)methyl] derivs.**

Species	Daphnia magna	
EC50	7,2	mg/l
Duration of exposure	72 h	
Method	OECD 202	

**Algae toxicity (Components)****bis-[4-(2,3-epoxipropoxy)phenyl]propane**

Species	Selenastrum capricornutum	
EC50	11	mg/l
Duration of exposure	72 h	

**4-morpholinecarbaldehyde**

Reference substance	4-morpholinecarbaldehyde	
Species	Desmodesmus subspicatus	
EC50	23880	mg/l
Duration of exposure	72 h	
Method	DIN 38412 / Part 9	

**oxirane, mono[(C12-14-alkyloxy)methyl] derivs.**

Species	Pseudokirchneriella subcapitata	
EC50	844	mg/l
Duration of exposure	72 h	
Method	OECD 201	

**Bisphenol-F-diglycidyl ether, reaction mass of isomers**

Species	Selenastrum capricornutum	
LC50	1,8	mg/l
Duration of exposure	72 h	
Method	OECD 201	

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**Bacteria toxicity (Components)****bis-[4-(2,3-epoxipropoxy)phenyl]propane**

Species	Pseudomonas putida	
EC50	100	mg/l

**oxirane, mono[(C12-14-alkyloxy)methyl] derivs.**

Species	activated sludge	
EC50	> 100	mg/l
Duration of exposure	3	h
Method	OECD 209	

**12.2. Persistence and degradability****General information**

not determined

**Biodegradability (Components)****bis-[4-(2,3-epoxipropoxy)phenyl]propane**

Value	6	to	12	%
Duration of test	28	d		
evaluation	not readily degradable			
Method	OECD 301 F			

**4-morpholinecarbaldehyde**

Value	100		%
Duration of test	28	d	
Method	OECD 301 A		

**oxirane, mono[(C12-14-alkyloxy)methyl] derivs.**

Value	87		%
Duration of test	28	d	
evaluation	Readily biodegradable (according to OECD criteria)		
Method	OECD 301 F		

**Methyl 4-toluenesulfonate**

evaluation	In principle biodegradable, failing 10-d window
Method	OECD 301F

**Bisphenol-F-diglycidyl ether, reaction mass of isomers**

Value	16		%
Duration of test	28	d	
evaluation	not readily degradable		
Method	OECD 301 B		

**12.3. Bioaccumulative potential****General information**

not determined

**Partition coefficient n-octanol/water (log value)**

Remarks	not determined
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**Octanol/water partition coefficient (log Pow) (Components)****bis-[4-(2,3-epoxipropoxy)phenyl]propane**

log Pow	3,242	
Temperature	25	°C

**4-morpholinecarbaldehyde**

log Pow	-1,2	
Temperature	23	°C

**oxirane, mono[(C12-14-alkyloxy)methyl] derivs.**

log Pow	3,77
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**Methyl 4-toluenesulfonate**



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log Pow 1,88

**Bisphenol-F-diglycidyl ether, reaction mass of isomers**

log Pow 3,6

Temperature 20 °C

**Bioconcentration factor (BCF) (Components)****bis-[4-(2,3-epoxipropoxy)phenyl]propane**

BCF 31

**4-morpholinecarbaldehyde**

BCF 1,9

**oxirane, mono[(C12-14-alkyloxy)methyl] derivs.**

BCF 263

**Bisphenol-F-diglycidyl ether, reaction mass of isomers**

BCF 150

**12.4. Mobility in soil****General information**

not determined

**12.5. Results of PBT and vPvB assessment****General information**

not determined

**Results of PBT and vPvB assessment**

The product contains no PBT substances

The product contains no vPvB substances.

**12.6 Endocrine disrupting properties****General information**

not determined

**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects****General information**

not determined

**General information / ecology**

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

**Disposal recommendations for packaging**

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

**SECTION 14: Transport information**

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number or ID number	3082	3082	3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxy)phenyl]propane, Bisphenol-F-diglycidyl ether, reaction mass of isomers)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxy)phenyl]propane, Bisphenol-F-diglycidyl ether, reaction mass of isomers)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxy)phenyl]propane, Bisphenol-F-diglycidyl ether, reaction mass of isomers)
14.3. Transport hazard class(es)	9	9	9
Label			
14.4. Packing group	III	III	III
Remarks	The product is not subject to any other provisions of ADR provided packaging of not more than 5 l / 5 kg	The product can be transported in accordance with IMDG Code paragraph 2.10.2.7, provided packaging not more than 5 l / 5 kg.	The product is not subject to any other provisions of IATA provided packaging of not more than 5 l / 5 kg (A197)
Limited Quantity	5 l	5 l	
Transport category	3		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant  ENVIRONMENTALLY HAZARDOUS	 ENVIRONMENTALLY HAZARDOUS
Tunnel restriction code	-		

**Information for all modes of transport****14.6. Special precautions for user**

The relevant transport regulations have to be considered.

**Other information****14.7 Maritime transport in bulk according to IMO instruments**

no data

**SECTION 15: Regulatory information \*\*\*****15.1. Safety, health and environmental regulations/legislation specific for the substance**

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**or mixture****Major-accident categories acc. 2012/18/EU**

Category	E2	Hazardous to the Aquatic Environment	200000	kg	500000	kg
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**VOC**

VOC (EU)	0,57	%	9,6	g/l
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**Other regulations, restrictions and prohibition regulations**Handling epoxy resin systems safely (published by PlasticsEurope) [www.plasticseurope.org](http://www.plasticseurope.org)

This product meets the requirements of Regulation (EC) No. 1935/2004 on the limitation of VOC content.

EU2004/42/IIA(j)500(2010): &lt;500g/l VOC

**Restriction according to annex XVII to regulation (EU) No 1907/2006**

Conditions of restriction for the entries Annex XVII REACH should be considered.

**Other information**

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

**15.2. Chemical safety assessment**

For this preparation a chemical safety assessment has not been carried out.

**SECTION 16: Other information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Classification (Regulation (EC) No. 1272/2008)

Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 1B	H360F	Calculation method
Aquatic Chronic 2	H411	Calculation method

**Hazard statements listed in Chapter 2/3**

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H360F	May damage fertility.
H411	Toxic to aquatic life with long lasting effects.

**CLP categories listed in Chapter 2/3**

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1C	Skin corrosion, Category 1C
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, Category 1A
Skin Sens. 1B	Skin sensitization, Category 1B

**Abbreviations**

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route

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RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
CAS: Chemical Abstracts Service  
EAK: Europäischer Abfallkatalog  
VOC: Volatile Organic Compound  
MAK: Maximale Arbeitsplatz-Konzentration  
AGW: Arbeitsplatzgrenzwert  
BGW: Biologischer Grenzwert  
NOEC: No observable effect concentration  
LD: Lethal dose  
LC: Lethal concentration  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: Very persistent and very bioaccumulative  
SVHC: Substances of very high concern  
DNEL: Derived no effect level  
PNEC: Predicted no effect concentration  
OECD: Organisation for Economic Co-operation and Development  
REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals  
TRGS: Technische Regeln für Gefahrstoffe

#### Information about Safety Data Sheets Preparers

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#### Supplemental information

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.