

Trade name: cds-AGL SlotRestore flex rapid

Version: 2 / GB

Date revised: 10.11.2025

Substance number: 19629

Replaces Version: 1 / GB

Print date: 19.02.2026

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

1.1. Product identifier

cds-AGL SlotRestore flex rapid

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 info@cds-polymere.de

by / telephone

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 3	H412

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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H412 Harmful 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; Bisphenol-F-diglycidyl ether, reaction mass of isomers; 1,6- hexanediol diglycidyl ether; Methyl 4-toluenesulfonate ; Fatty acids, C18-unsatd., trimers, reaction products with N1,N1'-(ethane-1,2-diyl)diethane-1,2-diamine

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	>= 10	<	25		%
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	>= 5 %
Skin Irrit. 2	H315	>= 5 %

1,6- hexanediol diglycidyl ether

CAS No.	16096-31-4				
EINECS no.	240-260-4				
Registration no.	01-2119463471-41-XXXX				
Concentration	>= 10	<	25		%
Classification (Regulation (EC) No. 1272/2008)					
	Skin Irrit. 2			H315	
	Skin Sens. 1			H317	
	Eye Irrit. 2			H319	

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Repr. 1B

H360F

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	>= 2,5	<	10	%
Classification (Regulation (EC) No. 1272/2008)				
	Skin Irrit. 2		H315	
	Skin Sens. 1A		H317	
	Aquatic Chronic 2		H411	

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

Fatty acids, C18-unsatd., trimers, reaction products with N1,N1'-(ethane-1,2-diyl)diethane-1,2-diamine

CAS No.	162627-18-1			
EINECS no.	605-297-6			
Registration no.	01-2120774766-37-XXXX			
Concentration	>= 0,1	<	0,25	%
Classification (Regulation (EC) No. 1272/2008)				
	Skin Sens. 1B		H317	
	Aquatic Chronic 1		H410	
	Aquatic Acute 1		H400	

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.

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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

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 (CO₂); 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

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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.

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

Do not keep at temperatures above 20 °C.

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)**1,6- hexanediol diglycidyl ether**

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	3,88	mg/m ³
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	0,44	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	3,88	mg/m ³
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	2,2	mg/kg/d

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Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Local effects	
Concentration	0,0226	mg/cm ²

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	dermal	
Mode of action	Local effects	
Concentration	0,0226	mg/cm ²

Fatty acids, C18-unsatd., trimers, reaction products with N1,N1'-(ethane-1,2-diyl)diethane-1,2-diamine

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

bis-[4-(2,3-epoxipropoxi)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 ³

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 ³

Predicted No Effect Concentration (PNEC)

1,6- hexanediol diglycidyl ether

Type of value	PNEC	
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Type	Freshwater	
Concentration	0,111	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,0111	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,111	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	2,29	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,229	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	1,8	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	1	mg/l

Fatty acids, C18-unsatd., trimers, reaction products with N1,N1'-(ethane-1,2-diy)diethane-1,2-diamine

Type of value	PNEC	
Type	Freshwater	
Concentration	0,006	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,0006	mg/kg
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,14	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,17	mg/kg
Type of value	PNEC	
Type	Secondary poisoning	
Concentration	20	mg/kg

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

Type of value	PNEC	
Type	Water	
Concentration	0,006	mg/l
Type of value	PNEC	
Type	Marine	
Concentration	0,0006	mg/l

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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		
Type	Sewage treatment plant (STP)		
Concentration	10		mg/l
Type of value	PNEC		
Type	Soil		
Concentration	0,065		mg/kg

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

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relevant CEN standards.

Hand protection

Chemical resistant gloves

Appropriate Material	nitrile		
Material thickness	>=	0,3	mm
Breakthrough time	>=	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.

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	epoxide like		
Colour	grey to black		
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
Auto-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			

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Value	1,83		g/cm ³
Temperature	23	°C	

Relative vapour density

Remarks not determined

9.2. Other information**Odour threshold**

Remarks not determined

Evaporation rate (ether = 1) :

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 alkalis.

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)**1,6- hexanediol diglycidyl ether**

Species	rat		
LD50		2190	mg/kg
Method	OECD 401		

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

Species rat

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LD50 15000 mg/kg

Methyl 4-toluenesulfonate

Species rat

LD50 341 mg/kg

Bisphenol-F-diglycidyl ether, reaction mass of isomers

Species rat

LD50 > 2000 mg/kg

Acute dermal toxicity

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

Acute dermal toxicity (Components)**1,6- hexanediol diglycidyl ether**

Species rat

LD50 > 2000 mg/kg

Method OECD 402

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

Species rabbit

LD50 23000 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)**1,6- hexanediol diglycidyl ether**

Species rat

LC0 0,035 mg/l

Duration of exposure 4 h

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

1,6- hexanediol diglycidyl ether

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)**1,6- hexanediol diglycidyl ether**

Species rabbit

evaluation irritant

Method EPA

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

Species rabbit

evaluation irritant

Method OECD 404

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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)**1,6- hexanediol diglycidyl ether**

Species rabbit
evaluation irritant
Method OECD 405

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)**1,6- hexanediol diglycidyl ether**

Species mouse
evaluation sensitizing
Method OECD 429

Fatty acids, C18-unsatd., trimers, reaction products with N1,N1'-(ethane-1,2-diyl)diethane-1,2-diamine

Species mouse
evaluation sensitizing
Method OECD 429

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

Species mouse
evaluation sensitizing
Method OECD 429

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

Subacute, subchronic, chronic toxicity (Components)

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1,6- hexanediol diglycidyl ether

Route of exposure	oral		
Species	rat		
NOAEL	300		mg/kg/d

Mutagenicity

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

evaluation	May damage fertility.
Remarks	The classification criteria are met.

Reproduction toxicity (Components)**1,6- hexanediol diglycidyl ether**

evaluation	May damage fertility.
Remarks	Indications of toxic effects are available from reproduction studies in animals.

Carcinogenicity

Remarks	Based on available data, the classification criteria are not met.
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Specific Target Organ Toxicity (STOT)**Single exposure**

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

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

	Based on available data, the classification criteria are not met.
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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)**1,6- hexanediol diglycidyl ether**

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)		
LC50	30		mg/l
Duration of exposure	96	h	
Method	OECD 203		

1,6- hexanediol diglycidyl ether

Species	zebra fish (<i>Brachydanio rerio</i>)		
EC10	1,24		mg/l
Method	OECD 210		

Fatty acids, C18-unsatd., trimers, reaction products with N1,N1'-(ethane-1,2-diyl)diethane-1,2-

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diamine

Species rainbow trout (*Oncorhynchus mykiss*)
 LL50 1,60 mg/l
 Duration of exposure 96 h
 Method OECD 203

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

Species rainbow trout (*Oncorhynchus mykiss*)
 LC50 1,3 mg/l
 Duration of exposure 96 h
 Method OECD 203

Bisphenol-F-diglycidyl ether, reaction mass of isomers

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

Daphnia toxicity (Components)

1,6- hexanediol diglycidyl ether

Species *Daphnia magna*
 EC50 39 57 mg/l
 Duration of exposure 48 h
 Method OECD 202

1,6- hexanediol diglycidyl ether

Species *Daphnia magna*
 EL10 8,93 mg/l
 Method OECD 211

Fatty acids, C18-unsatd., trimers, reaction products with N1,N1'-(ethane-1,2-diy)diethane-1,2-diamine

Species *Daphnia magna*
 EL50 0,74 mg/l
 Duration of exposure 48 h
 Method OECD 202

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

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

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

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

Bisphenol-F-diglycidyl ether, reaction mass of isomers

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

Algae toxicity (Components)

1,6- hexanediol diglycidyl ether

Species *Pseudokirchneriella subcapitata*
 EC50 23,1 mg/l
 Duration of exposure 48 h

1,6- hexanediol diglycidyl ether

Species *Pseudokirchneriella subcapitata*
 EC50 47 mg/l

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Fatty acids, C18-unsatd., trimers, reaction products with N1,N1'-(ethane-1,2-diyl)diethane-1,2-diamine

Species	Pseudokirchneriella subcapitata		
EL50	0,45		mg/l
Duration of exposure	72	h	
Method	OECD 201		

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

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

Bisphenol-F-diglycidyl ether, reaction mass of isomers

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

Bacteria toxicity (Components)**Fatty acids, C18-unsatd., trimers, reaction products with N1,N1'-(ethane-1,2-diyl)diethane-1,2-diamine**

Species	activated sludge		
IC50	> 1000		mg/l
Duration of exposure	3	h	
Method	OECD 209		

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

Species	Pseudomonas putida		
EC50	100		mg/l

12.2. Persistence and degradability**General information**

not determined

Biodegradability (Components)**Fatty acids, C18-unsatd., trimers, reaction products with N1,N1'-(ethane-1,2-diyl)diethane-1,2-diamine**

evaluation	not readily degradable		
Method	OECD 301 F		

1,6- hexanediol diglycidyl ether

Value	47		%
Duration of test	28	d	
evaluation	inherently biodegradable, fulfilling criteria		
Method	OECD 301 D		

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

Value	6	to	12	%
Duration of test	28	d		
evaluation	not readily degradable			
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

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General information

not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Octanol/water partition coefficient (log Pow) (Components)**Fatty acids, C18-unsatd., trimers, reaction products with N1,N1'-(ethane-1,2-diyl)diethane-1,2-diamine**

log Pow	>	5,5	
Temperature		20	°C

1,6- hexanediol diglycidyl ether

log Pow		0,82	
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bis-[4-(2,3-epoxipropoxy)phenyl]propane

log Pow		3,242	
Temperature		25	°C

Methyl 4-toluenesulfonate

log Pow		1,88	
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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	
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Bisphenol-F-diglycidyl ether, reaction mass of isomers

BCF		150	
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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

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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 ***

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number or ID number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
Label			
14.4. Packing group	-	-	-

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 or mixture

VOC

VOC (EU) 0,78 % 14,3 g/l

Other regulations, restrictions and prohibition regulations

Handling epoxy resin systems safely (published by PlasticsEurope) 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): <500g/l VOC

GIS-Code

GIS-Code RE 90

Other information

The product does not contain substances according to Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH) with a content of $\geq 0.1\%$ w/w.

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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: ***

Key literature references and sources for data

SDS

ECHA

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 3	H412	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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
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
 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



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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.