

Trade name: cds-Adhesive

Version: 1.0 / EN

Date revised 08.12.2022

Substance number: 11454

Replaces Version: - / EN

Print date: 12.12.2022

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

1.1. Product identifier

cds-Adhesive

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

1.4. Emergency telephone number

cds-Labor / Tel. +49 (67 01) 93 50-28 (This number is reachable monday to friday from 8 am to 5 pm)

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
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

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

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264.1	Wash hands thoroughly after handling.

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P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 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 Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. Bisphenol-F-diglycidyl ether, isomer mixture; Bis[4-(2,3-epoxypropoxy)phenyl]propane

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients**Hazardous ingredients****Bis[4-(2,3-epoxypropoxy)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, isomer mixture

CAS No. (9003-36-5)
 EINECS no. 701-263-0
 Registration no. 01-2119454392-40-XXXX
 Concentration \geq 10 < 25 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2 H315
 Skin Sens. 1 H317
 Aquatic Chronic 2 H411

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

CAS No. 68609-97-2
 EINECS no. 271-846-8
 Registration no. 01-2119485289-22-0007
 Concentration \geq 1 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2 H315
 Skin Sens. 1 H317

Quartz

CAS No. 14808-60-7
 EINECS no. 238-878-4
 Concentration \geq 1 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 STOT RE 2 H373

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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. When vapours are intensively inhaled, seek medical help immediately.

After skin contact

Wash off immediately with soap and water. Take medical treatment.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

If swallowed, seek medical advice immediately and show this container or label. 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

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.

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.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

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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. In case the product spills into sewage waters, immediately inform the authorities.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. 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. 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.

Further information on storage conditions

Do not keep at temperatures above 20 °C.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

Contains no substances with occupational exposure limit values.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Bis[4-(2,3-epoxypropoxy)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

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

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

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Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	2,35	mg/kg/d

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	3,9	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	4,1	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	Systemic effects	
Concentration	13,8	mg/m ³

Bisphenol-F-diglycidyl ether, isomer mixture

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)

Bis[4-(2,3-epoxypropoxy)phenyl]propane

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

Type of value	PNEC	
Type	Marine	
Concentration	0,001	mg/l

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

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

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

Bisphenol-F-diglycidyl ether, isomer mixture

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

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

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

Hold eye wash fountain available. Hold emergency shower available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. 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.

Hand protection

Chemical resistant gloves
Appropriate Material neoprene

Eye protection

Safety glasses with side protection shield

Body protection

Clothing as usual in the chemical industry. Protective shoes

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

Form	liquid
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Odour threshold

Remarks	not determined
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pH value

Remarks	not determined
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Melting point

Remarks	not determined
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Freezing point

Remarks	not determined
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Initial boiling point and boiling range

Remarks	not determined
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Flash point

Value	> 100	°C
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Evaporation rate (ether = 1) :

Remarks	not determined
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Flammability (solid, gas)

not determined

Upper/lower flammability or explosive limits

Remarks not determined

Vapour pressure

Remarks not determined

Vapour density

Remarks not determined

Density

Value	1,7		g/cm ³
Temperature	23	°C	

Solubility in water

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

Viscosity

Remarks not determined

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

9.2. Other information**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

None known

10.6. Hazardous decomposition products

Irritant gases/vapours

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

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

Acute oral toxicity (Components)

Bis[4-(2,3-epoxypropoxy)phenyl]propane

Reference substance Bis[4-(2,3-epoxypropoxy)phenyl]propane

Species rat

LD50 15000 mg/kg

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

Species rat

LD50 26000 mg/kg

Bisphenol-F-diglycidyl ether, isomer mixture

Species rat

LD50 > 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-epoxypropoxy)phenyl]propane

Reference substance Bis[4-(2,3-epoxypropoxy)phenyl]propane

Species rabbit

LD50 23000 mg/kg

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

Species rat

LD50 > 10000 mg/kg

Bisphenol-F-diglycidyl ether, isomer mixture

Species rat

LD50 > 2000 mg/kg

Acute inhalational toxicity

ATE 2,244 mg/l

Administration/Form Dust/Mist

Method calculated value (Regulation (EC) No. 1272/2008)

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

Acute inhalative toxicity (Components)

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

Species rat

LC50 0,206 mg/l

Duration of exposure 4 h

Administration/Form Dust/Mist

Skin corrosion/irritation

evaluation irritant

Remarks The classification criteria are met.

Serious eye damage/irritation

evaluation irritant

Remarks The classification criteria are met.

Sensitization

evaluation May cause sensitization by skin contact.

Remarks The classification criteria are met.

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Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

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

Reproductive toxicity

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

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.

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-epoxypropoxy)phenyl]propane**

Reference substance	Bis[4-(2,3-epoxypropoxy)phenyl]propane		
Species	rainbow trout (<i>Oncorhynchus mykiss</i>)		
LC50	2		mg/l
Duration of exposure	96	h	

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

Species	golden orfe (<i>Leuciscus idus</i>)		
LC50	1	10	mg/l

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

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)		
LC50	>	5000	mg/l
Duration of exposure	96	h	

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

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

Bisphenol-F-diglycidyl ether, isomer mixture

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

Daphnia toxicity (Components)**Bis[4-(2,3-epoxypropoxy)phenyl]propane**

Reference substance	Bis[4-(2,3-epoxypropoxy)phenyl]propane		
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Species	Daphnia magna		
EC50	1,8		mg/l
Duration of exposure	48	h	

Bisphenol-F-diglycidyl ether, isomer mixture

Species	Daphnia magna		
LC50	2,55		mg/l
Duration of exposure	48	h	

Algae toxicity (Components)**Bis[4-(2,3-epoxypropoxy)phenyl]propane**

Reference substance	Bis[4-(2,3-epoxypropoxy)phenyl]propane		
Species	Selenastrum capricornutum		
EC50	11		mg/l
Duration of exposure	72	h	

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

Species	Pseudokirchneriella subcapitata		
EbC50	843		mg/l
Duration of exposure	72	h	

Bisphenol-F-diglycidyl ether, isomer mixture

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

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

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

Bis[4-(2,3-epoxypropoxy)phenyl]propane

Reference substance	Bis[4-(2,3-epoxypropoxy)phenyl]propane		
Species	Pseudomonas putida		
EC50	100		mg/l

12.2. Persistence and degradability**General information**

not determined

12.3. Bioaccumulative potential**General information**

not determined

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil**General information**

not determined

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

not determined

12.6. Other adverse effects**General information**

not determined

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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

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	-		
14.1. UN number	3082	3082	3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis[4-(2,3-epoxypropoxy)phenyl]propane, Bisphenol-F-diglycidyl ether, isomer mixture)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis[4-(2,3-epoxypropoxy)phenyl]propane, Bisphenol-F-diglycidyl ether, isomer mixture)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis[4-(2,3-epoxypropoxy)phenyl]propane, Bisphenol-F-diglycidyl ether, isomer mixture)
14.3. Transport hazard class(es)	9	9	9
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l		
Transport category	3		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	 ENVIRONMENTALLY HAZARDOUS

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

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Water Hazard Class (Germany)

Water Hazard Class (Germany) WGK 2

VOC

VOC (EU) 0,35 % 5,9 g/l

15.2. Chemical safety assessment

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

SECTION 16: Other information**Hazard statements listed in Chapter 3**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Eye Irrit. 2	Eye irritation, Category 2
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2

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.