

## 1. Product and company identification

### Product identifier

Trade name: Special adhesive for heating cartridges -Resin-

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

General use: Resin for 2 component adhesive

### Details of the supplier of the safety data sheet

Company name: Coolride GmbH

Street/POB-No.: Mangenberger Str. 150

Postal Code, city: 42655 Solingen

Germany

WWW: [www.coolride.de](http://www.coolride.de)

E-mail: [info@coolride.de](mailto:info@coolride.de)

Telephone: +49/212 / 2357069

Telefax: +49/212 / 68110694

Department responsible for information:

Mark Peter Schildmann

Telephone: +49/212 / 2357069, E-mail: [mpschildmann@coolride.de](mailto:mpschildmann@coolride.de)

### Emergency phone number

**GIZ-Nord, Göttingen**

**Telephone: +49 551-19240**

## 2. Hazards identification

### Emergency overview

Appearance: Form: thixotropic

Color: white

Odor: weak

Classification: Skin Irritation - Category 2; Eye Irritation - Category 2A; Sensitization - skin - Category 1; Aquatic toxicity - chronic - Category 2;

Hazard symbols:



Signal word:

**Warning**

Hazard statements:

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Toxic to aquatic life with long lasting effects.



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according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010

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Precautionary statements: Keep out of reach of children.  
Avoid breathing vapors.  
Wash hands and face thoroughly after handling.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection.  
IF ON SKIN: Wash with plenty of water/soap.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Specific treatment (see ' First aid ' on this label).  
If skin irritation occurs: Get medical advice/attention.  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
Collect spillage.  
Dispose of contents/container to hazardous or special waste collection point.

### Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Hazards not otherwise classified

see section 11: Toxicological information

## 3. Composition / Information on ingredients

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 25068-38-6	Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <=700)	80 - 99 %	Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 2.

## 4. First aid measures

General information: If medical advice is needed, have product container or label at hand.  
Take off contaminated clothing and wash it before reuse.

In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.

Following skin contact: Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek medical attention.

### Most important symptoms/effects, acute and delayed

May cause an allergic skin reaction. Causes skin irritation. Causes serious eye irritation.

### Information to physician

Treat symptomatically.



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### 5. Fire fighting measures

Flash point/flash point range:

No data available

Auto-ignition temperature: No data available

Suitable extinguishing media:

Water spray jet, dry chemical powder, sand, carbon dioxide.

In case of large fires: Water spray jet or water mist, foam.

Extinguishing media which must not be used for safety reasons:

Full water jet

#### Specific hazards arising from the chemical

May form dangerous gases and vapors in case of fire.

Furthermore, there may develop: Carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Cool endangered containers with water jetspray. Do not allow fire water to penetrate into surface or ground water.

### 6. Accidental release measures

Personal precautions:

Avoid breathing vapors. Avoid contact with the substance. If possible, eliminate leakage. Provide adequate ventilation. Wear appropriate protective equipment. Keep unprotected people away. Take off contaminated clothing and wash it before reuse.

Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains.

Inform the relevant authorities in case of leakage into sewers, aquatic environment or soil.

Methods for clean-up:

Allow the leaked product to solidify if this is possible without endangering people. Take up mechanically and send to waste disposal. Consider compliance with applicable regulations.

Clean using cleansing agents. Do not use solvents.

### 7. Handling and storage

#### Handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Avoid breathing vapors. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

#### Storage

Requirements for storerooms and containers:

Protect from exposure to heat, direct sunlight, and cold. Store container tightly closed in a dry area.

Storage temperature: 50 °F up to 68 °F

Smoking is forbidden. Only trained personnel may be allowed to enter storage area.

Hints on joint storage:

Do not store together with strong oxidizing agents.

Keep away from food, drink and animal feedingstuffs.



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### 8. Exposure controls / personal protection

#### Exposure guidelines

#### Engineering controls

Provide good ventilation and/or an exhaust system in the work area.  
See also information in chapter 7, section storage.

#### Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection: Wear suitable protective clothing.  
Chemical resistant safety shoes.

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Glove material: Nitrile rubber - Layer thickness: 0.11 mm

Breakthrough time: >480 min

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: When vapors form, use respiratory protection.

Use filter type NPF 70 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

General hygiene considerations:

Avoid breathing vapors. Do not get in eyes, on skin, or on clothing. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Have eye wash bottle or eye rinse ready at work place.

#### Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance: Form: thixotropic  
Color: white

Odor: weak

Odor threshold: No data available

pH: No data available

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point/flash point range: No data available

Evaporation rate: No data available

Flammability: No data available

Explosion limits: No data available

Vapor pressure: No data available

Vapor density: No data available

Density: No data available

Solubility: No data available

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Thermal decomposition: No data available

Viscosity, dynamic: thixotropic



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### 10. Stability and reactivity

Reactivity:	Refer to subsection "Possibility of hazardous reactions".
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No dangerous reactions with proper and specified storage and handling.
Conditions to avoid:	Protect from direct exposure to sunlight and temperatures exceeding 203 °F.
Incompatible materials:	Strong oxidizing agents (Sodium hydroxide, amines, mercaptans, strong Lewis acids)
Hazardous decomposition products:	No decomposition when used properly.
Thermal decomposition:	No data available

### 11. Toxicological information

#### Toxicological tests

Acute toxicity:	LD50 Rat, oral: > 2000 mg/kg LD50 Rabbit, dermal: > 2000 mg/kg
Toxicological effects:	The statements are derived from the properties of the single components. No toxicological data is available for the product as such. Acute toxicity (oral): Based on available data, the classification criteria are not met. Acute toxicity (dermal): Based on available data, the classification criteria are not met. Acute toxicity (inhalative): Lack of data. Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation. Serious eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation. Sensitisation to the respiratory tract: Lack of data. Skin sensitisation: Sensitization - skin - Category 1 = May cause an allergic skin reaction. Germ cell mutagenicity/Genotoxicity: Lack of data. Carcinogenicity: Lack of data. Reproductive toxicity: Lack of data. Effects on or via lactation: Lack of data. Specific target organ toxicity (single exposure): Lack of data. Specific target organ toxicity (repeated exposure): Lack of data. Aspiration hazard: Lack of data.

#### Symptoms

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

### 12. Ecological information

#### Ecotoxicity

Aquatic toxicity:	Toxic to aquatic life with long lasting effects. Information about Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <=700): Fish toxicity: LC50: 1.3 mg/L/96h Daphnia toxicity: EC50: 2.1 mg/L/48h Daphnia toxicity: NOEC: 0.3 mg/L/21d Algae toxicity: LC50: > 11 mg/L/72h
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**Mobility in soil**

No data available

**Persistence and degradability**

Further details: Product is not readily biodegradable.

**Additional ecological information**

Volatile organic compounds (VOC):

0 % by weight = 0 g/L

General information: Do not allow to penetrate into soil, waterbodies or drains.

**13. Disposal considerations****Product**

Recommendation: Dispose of waste according to applicable legislation.

**Package**Recommendation: Dispose of waste according to applicable legislation.  
Non-contaminated packages may be recycled.**14. Transport information****14.2 UN proper shipping name**

ADR/RID, IMDG, IATA-DGR:

UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Reaction product with Bisphenol-A-(epichlorhydrin) epoxy resin (molecular weight <=700))**Transport hazard class(es)**

ADR/RID: Class 9, Code: M6

IMDG: Class 9, Subrisk -

IATA-DGR: Class 9

**Packing group**

ADR/RID, IMDG, IATA-DGR:

III

**Environmental hazards**

Marine pollutant: yes

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No data available



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### USA: Department of Transportation (DOT)

Identification number: UN3082  
Proper shipping name: UN 3082,  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(Reaction product with Bisphenol-A-(epichlorhydrin) epoxy resin (molecular weight <=700))

Hazard class or Division: 9  
Packing Group: III  
Labels: 9  
Symbols: G  
Special provisions: 8, 146, 173, 335, IB3, T4, TP1, TP29  
Packaging – Exceptions: 155  
Packaging – Non-bulk: 203  
Packaging – Bulk: 241  
Quantity limitations – Passenger aircraft / rail: No limit  
Quantity limitations – Cargo only: No limit  
Vessel stowage – Location: A



### Sea transport (IMDG)

UN number: UN 3082  
Proper shipping name: UN 3082,  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Reaction product with Bisphenol-A-(epichlorhydrin) epoxy resin (molecular weight <=700))

Class or division, Subsidiary risk: Class 9, Subrisk -  
Packing Group: III  
EmS: F-A, S-F  
Special provisions: 274, 335, 969  
Limited quantities: 5 L  
Excepted quantities: E1  
Package - Instructions: P001, LP01  
Package - Provisions: PP1  
IBC - Instructions: IBC03  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: T4  
Tank instructions - Provisions: TP2, TP29  
Stowage and handling: Category A.  
Properties and observations: -  
Marine pollutant: yes  
Segregation group: none

### Air transport (IATA)

UN/ID number: UN 3082  
Proper shipping name: UN 3082,  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Reaction product with Bisphenol-A-(epichlorhydrin) epoxy resin (molecular weight <=700))

Class or division, Subsidiary risk: Class 9  
Packing Group: III  
Hazard label: Miscellaneous & Environmentally hazardous  
Excepted Quantity Code: E1  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y964 - Max. Net Qty/Pkg. 30 kg G  
Passenger and Cargo Aircraft: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L  
Cargo Aircraft only: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L  
Special provisions: A97 A158 A197 A215  
Emergency Response Guide-Code (ERG): 9L



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### 15. Regulatory information

#### National regulations - U.S. Federal Regulations

Product:

All ingredients of this product are listed on the TSCA inventory.

Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq 700$ ):

TSCA Inventory: listed; EPA flags XU  
TSCA HPVC: not listed

#### National regulations - Great Britain

Hazchem-Code: •3Z

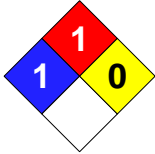
### 16. Other information

Text for labeling:

Contains 80 - 99 % Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq 700$ ). Safety data sheet available on request.

Contains Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq 700$ )

Hazard rating systems:



NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 1 (Slight)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 1 (Slight)

Flammability: 1 (Slight)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
	X





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### Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
AS/NZS: Australian Standards/New Zealand Standards  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC50: Effective Concentration 50%  
EC: European Community  
EN: European Standard  
EU: European Union  
MFSU: Manufacture, formulation, supply and use  
IATA: International Air Transport Association  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IMDG Code: International Maritime Dangerous Goods Code  
LC50: Median lethal concentration  
LD50: Lethal dose 50%  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
NOEC: No Observed Effect Concentration  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and 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  
TSCA: Toxic Substance Control Act  
UN: United Nations  
vPvB: Very persistent and very bioaccumulative

Reason of change: Changes in section 2: Labeling  
Changes in section 15: Regulatory information  
General revision

Date of first version: 7/20/2018

### Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.