

SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010



Special adhesive for heating cartridges -Resin-

Material number A1211A

Revision date: 12/19/2018
Version: 2

Language: en-US

Date of print: 4/5/2019
Page: 1 of 8

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: Epoxy resin

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
E-mail: info@coolride.de
Telephone: +49/212 / 2357069
Telefax: +49/212 / 68110694

Dept. responsible for information:
Mark Peter Schildmann
Telephone: +49/212 / 2357069, E-mail: 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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Language: en-US

Date of print: 4/5/2019
Page: 2 of 8

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/face 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.
IF exposed or concerned: Get medical advice/attention.
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.
Wash contaminated clothing 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) and SIMDUT in Canada.

Hazards not otherwise classified

Vapors irritate mucous membranes and respiratory system.
see section 11: Toxicological information

3. Composition / Information on ingredients

Relevant ingredients:

CAS No.	Designation	Content	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

In case of inhalation: Provide fresh air. Seek medical attention.
Following skin contact: After contact with skin, wash immediately with soap and plenty of water. Take off contaminated clothing and wash it before reuse. 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 with water. Do not induce vomiting. Seek medical attention. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

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

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Date of print: 4/5/2019
Page: 3 of 8

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

No data available

Auto-ignition temperature: No data available

Suitable extinguishing media:

Water spray jet, foam, dry chemical powder, Carbon dioxide

Extinguishing media which must not be used for safety reasons:

Full water jet

Specific hazards arising from the chemical

May form dangerous gases and vapours in case of fire.

In case of fire may be liberated: 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:

Provide adequate ventilation. Avoid contact with the substance. Avoid breathing vapors. Wear self-contained breathing apparatus. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

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 contact with the substance. Do not eat, drink or smoke when using this product. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

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.

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Version: 2

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Date of print: 4/5/2019
Page: 4 of 8

8. Exposure controls / personal protection

Exposure guidelines

Engineering controls

Provide adequate ventilation.
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:	Take off contaminated clothing and wash it before reuse. Avoid contact with the substance. Wash hands before breaks and after work. Do not breathe vapor or spray. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Work place should be equipped with a shower and an eye rinsing apparatus.

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 value:	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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Date of print: 4/5/2019
Page: 5 of 8

10. Stability and reactivity

- Reactivity: refer to 10.3
- Chemical stability: Stable under recommended storage conditions.
- Possibility of hazardous reactions
No hazardous reaction when handled and stored according to provisions.
- Conditions to avoid: Protect from direct exposure to sunlight and temperatures exceeding 203 °F.
- Incompatible materials: Strong oxidizing agents, amines, mercaptans, strong Lewis acids, Sodium hydroxide.
- Hazardous decomposition products:
no data available
- 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.

12. Ecological information

Ecotoxicity

- Aquatic toxicity: Toxic to aquatic life with long lasting effects.
- Algae toxicity: EC50: 220 mg/L/96h
- Daphnia toxicity: EC50: 2.8 mg/L/48h
- Fish toxicity: LC50: 3.6 mg/L/96h

Mobility in soil

No data available

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Version: 2

Language: en-US

Date of print: 4/5/2019
Page: 6 of 8

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.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.
Non-contaminated packages may be recycled.

14. Transport information

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



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Version: 2

Language: en-US

Date of print: 4/5/2019
Page: 7 of 8

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
Contaminated packaging - Instructions:	P001, LP01
Contaminated packaging - 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
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
Emergency Response Guide-Code (ERG):	9L

15. Regulatory information

National regulations - U.S. Federal Regulations

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

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 <=700). Safety data sheet available on request.

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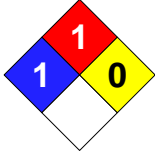
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Revision date: 12/19/2018
Version: 2

Language: en-US

Date of print: 4/5/2019
Page: 8 of 8

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

Reason of change: Changes in section 9: Physical and chemical properties (VOC)
Date of first version: 7/20/2018

Department issuing data sheet

Contact person: see section 1: Dept. 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.