

# SAFETY DATA SHEET

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



## Special adhesive for heating cartridges -Hardener-

Material number A1211B

Revision date: 2/22/2019  
Version: 3

Language: en-US

Date of print: 4/9/2019  
Page: 1 of 9

### 1. Product and company identification

#### Product identifier

Trade name: Special adhesive for heating cartridges -Hardener-

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

General use: Curing agent

#### 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

Dept. 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: Physical state at 68 °F and 101.3 kPa: liquid  
Form: pasty  
Color: white

Odor: characteristic

Classification: Skin Corrosion - Category 1C; Sensitization - skin - Category 1;

Hazard symbols:



Signal word:

**Danger**

Hazard statements:

Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.

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Precautionary statements: Keep out of reach of children.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash hands and face thoroughly after handling.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
IF ON SKIN: Wash with plenty of water/soap.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/or shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER/doctor.  
Specific treatment (see ' First aid ' on this label).  
If skin irritation or rash occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
Wash contaminated clothing before reuse.  
Store locked up.  
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

Special danger of slipping by leaking/spilling product.  
see section 11: Toxicological information

## 3. Composition / Information on ingredients

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 90-72-2	2,4,6-tris (Dimethylaminomethyl) phenol	1 - 10 %	Acute Toxicity - oral - Category 4. Skin Corrosion - Category 1C. Eye Damage - Category 1. Sensitization - skin - Category 1.
CAS 71074-89-0	Bis[(dimethylamino)methyl] phenol	< 1.5 %	Skin Corrosion - Category 1B.

Additional information: Ammonia  
The maximum workplace exposure limits are, where necessary, listed in section 8.

## 4. First aid measures

General information: First aider: Pay attention to self-protection!  
In case of inhalation: Provide fresh air. Seek medical attention.  
Following skin contact: Remove contaminated clothing immediately and dispose of safely. After contact with skin, wash immediately with soap and plenty of water. Follow up by applying skin cream. Immediately get medical attention.  
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. Seek the attention of an ophthalmologist immediately.

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After swallowing: Rinse mouth with water. Repeatedly drink water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately get medical attention.

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

Causes severe skin burns and eye damage. May cause an allergic skin reaction.

### 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: Nitrogen oxides (NOx), sulphur oxides, ammonia, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

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

Additional information:

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 generation of dust. Avoid breathing dust/fume/gas/mist/vapors/spray.

Use appropriate respiratory protection.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away. If possible, eliminate leakage.

Environmental precautions:

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

Methods for clean-up:

Larger quantities to be stemmed and pumped into tanks. Take up residuals mechanically and dispose them according to the regulations. Dispose of in accordance with the regulations.

Clean up small amounts using water. Dispose of waste water according to local, state, and federal regulations.

## 7. Handling and storage

### Handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Do not breathe dust/fume/gas/mist/vapors/spray. 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 immediately all contaminated clothing and wash it before reuse. When handling large quantities, supply emergency spray.

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### Storage

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.

Keep container dry. Keep only in the original container.

Protect from heat and direct sunlight.

Store containers in upright position.

storage temperature: 50 °F up to 68 °F

Only trained personnel may be allowed to enter storage area.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

## 8. Exposure controls / personal protection

### Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
7664-41-7	Ammonia, anhydrous	USA: ACGIH: STEL	24 mg/m <sup>3</sup> ; 35 ppm
		USA: ACGIH: TWA	17 mg/m <sup>3</sup> ; 25 ppm
		USA: NIOSH: STEL	27 mg/m <sup>3</sup> ; 35 ppm
		USA: NIOSH: TWA	18 mg/m <sup>3</sup> ; 25 ppm
		USA: OSHA: TWA	35 mg/m <sup>3</sup> ; 50 ppm

### 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.  
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.  
Glove material: PVC  
Layer thickness: >0.5 mm  
Breakthrough time: >480 min.  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.  
Use combination filter type A2-P3 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.  
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

General hygiene considerations:

Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Take off immediately all contaminated clothing and wash it before reuse.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

When handling large quantities, supply emergency spray.

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## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: liquid Form: pasty Color: white
Odor:	characteristic
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
Additional information:	No data available

## 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:	Keep away from heat sources, sparks and open flames. Protect against direct sunlight.
Incompatible materials:	No data available
Hazardous decomposition products:	Nitrogen oxides (NO <sub>x</sub> ), sulphur oxides, hydrogen sulfide, ammonia, carbon monoxide and carbon dioxide.
Thermal decomposition:	No data available

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## 11. Toxicological information

### Toxicological tests

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.  
ATEmix (calculated): ATE > 2000 mg/kg.  
Acute toxicity (dermal): Lack of data.  
Acute toxicity (inhalative): Lack of data.  
Skin corrosion/irritation: Skin Corrosion - Category 1C = Causes severe skin burns and eye damage.  
Serious eye damage/irritation: Lack of data.  
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: Information about Bis[(dimethylamino)methyl]phenol:  
Fish toxicity:  
LC50 Cyprinus carpio (Common Carp): 175 mg/L/96 h  
Algae toxicity:  
EL50 Desmodesmus subspicatus (green algae): 84 mg/L/72 h.

### Mobility in soil

No data available

### Persistence and degradability

Further details: Product is not 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. May be taken to household waste disposal or incineration plant.

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### 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: UN2735  
Proper shipping name: UN 2735, AMINES, LIQUID, CORROSIVE, N.O.S.  
(2,4,6-tris(Dimethylaminomethyl)phenol,  
Bis[(dimethylamino)methyl]phenol)  
Hazard class or Division: 8  
Packing Group: III  
Labels: 8  
Symbols: G  
Special provisions: IB3, T7, TP1, TP28  
Packaging – Exceptions: 154  
Packaging – Non-bulk: 203  
Packaging – Bulk: 241  
Quantity limitations – Passenger aircraft / rail: 5 L  
Quantity limitations – Cargo only: 60 L  
Vessel stowage – Location: A  
Vessel stowage – Other: 52



### Sea transport (IMDG)

UN number: UN 2735  
Proper shipping name: UN 2735, AMINES, LIQUID, CORROSIVE, N.O.S.  
(2,4,6-tris(Dimethylaminomethyl)phenol, Bis[(dimethylamino)methyl]phenol)  
Class or division, Subsidiary risk: Class 8, Subrisk -  
Packing Group: III  
EmS: F-A, S-B  
Special provisions: 223, 274  
Limited quantities: 5 L  
Excepted quantities: E1  
Contaminated packaging - Instructions: P001, LP01  
Contaminated packaging - Provisions: -  
IBC - Instructions: IBC03  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: T7  
Tank instructions - Provisions: TP1, TP28  
Stowage and handling: Category A.  
Segregation: SG35  
Properties and observations: Colourless to yellowish liquids or solutions with a pungent odour. Miscible with or soluble in water. When involved in a fire, evolve toxic gases. Corrosive to most metals, especially to copper and its alloys. React violently with acids. Cause burns to skin, eyes and mucous membranes.  
Marine pollutant: no  
Segregation group: 18

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### Air transport (IATA)

UN/ID number: UN 2735  
Proper shipping name: UN 2735, AMINES, LIQUID, CORROSIVE, N.O.S.  
(2,4,6-tris(Dimethylaminomethyl)phenol, Bis[(dimethylamino)methyl]phenol)  
Class or division, Subsidiary risk: Class 8  
Packing Group: III  
Hazard label: Corrosive  
Excepted Quantity Code: E1  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y841 - Max. Net Qty/Pkg. 1 L  
Passenger and Cargo Aircraft: Pack.Instr. 852 - Max. Net Qty/Pkg. 5 L  
Cargo Aircraft only: Pack.Instr. 856 - Max. Net Qty/Pkg. 60 L  
Special provisions: A3 A803  
Emergency Response Guide-Code (ERG): 8L

### Further information

Protect from exposure to heat, direct sunlight, and cold.

## 15. Regulatory information

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

Product: 2,4,6-tris(Dimethylaminomethyl) phenol:  
TSCA Inventory: listed  
TSCA HPVC: not listed  
CAS 71074-89-0 is an impurity of the CAS 90-72-2: is listed on TSCA or exempt from listing.

Ammonia, anhydrous: TSCA: listed  
Clean Air Act:  
Accidental Release Prevention: Threshold 20000 lbs. / Basis for listing = a,b  
Clean Water Act:  
Hazardous Substances: RQ 100 lbs.  
Other Environmental Laws:  
CERCLA: RQ 100 lbs.  
SARA Title III Section 302, EHS: TPQ 500 lbs. / RQ 100 lbs.  
SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard  
NIOSH Recommendations:  
Occupational Health Guideline: 0028\*  
OSHA Process Safety Management: Threshold 10000 lbs.



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

Ammonia, anhydrous: California Proposition 65 code: not listed  
Delaware Air Quality Management List:  
DRQ: 50 - RQ State: State requirement differs from Federal  
Idaho Air Pollutant List:  
Title 585: AAC: 0.9 - EL: 1.2 - OEL: 18 - Title 586: -  
Maine Hazardous Air Pollutants:  
Me 2005: CAP / HAP - Hap Rpt: 2000  
Massachusetts Haz. Substance codes: 2,4,5,6 \*E\* F6 F8 F9  
Minnesota Haz. Substance:  
Codes: ANOS - Ratings: 9.39 - Status: Title III. TRI.  
New Jersey Extraordinarily Hazardous Substances:  
EPA Threshold: 10000 - NJ Treshold: 5200  
NJ Group: II - NJ Table: I Part A - NJ Basis: Not on List  
New Jersey RTK Hazardous Substance:  
DOT: 1005 - Sub No.: 0084 - TPQ: -- EHS: Yes  
New York List of Hazardous Substances:  
RQ-Air: 100 - RQ-Land: 100 - Note: No Note Associated with this chemical.  
Pennsylvania Haz. Substance code: E  
Washington Air Contaminant:  
TWA: 25 ppm - 18 mg - STEL: 35 ppm - 27 mg

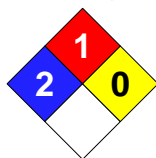
### National regulations - Great Britain

Hazchem-Code: 2X

## 16. Other information

Text for labeling: Contains 1 - 10 % 2,4,6-tris(Dimethylaminomethyl)phenol, < 1.5 %  
Bis[(dimethylamino)methyl]phenol. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:  
Health: 2 (Moderate)  
Fire: 1 (Slight)  
Reactivity: 0 (Minimal)  
HMIS Version III Rating:  
Health: 2 (Moderate)  
Flammability: 1 (Slight)  
Physical Hazard: 0 (Minimal)  
Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0
	X

Reason of change: Changes in section 2: Labeling, label  
Changes in section 3: Composition / Information on ingredients  
Changes in section 14: Transport information  
Changes in section 4-12, 15: General revision

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.