



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 11/3/2020
Version: 5
Language: en-GB,IE
Date of print: 17/3/2020

Bottom Resist Series AR-BR 5460 & 5480

Material number AR-BR 5460 & 5480

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

1.1 Product identifier

Trade name: Bottom Resist Series AR-BR 5460 & 5480

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

General use: Intermediate for electronic industry
For industrial purposes only

1.3 Details of the supplier of the safety data sheet

Company name: Allresist
Gesellschaft für chemische Produkte zur Mikrostrukturierung mbH
Street/POB-No.: Am Biotop 14
Postal Code, city: 15344 Strausberg
WWW: www.allresist.de
E-mail: info@allresist.de
Telephone: +49 (0)33 41-35 93-0
Telefax: +49 (0)33 41-35 93-29
Department responsible for information:
Herr Claus Kramer, Email: Claus.Kramer@allresist.de

1.4 Emergency telephone number

Telephone: +49 (0)33 41-35 93-0
Only available during office hours.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Flam. Liq. 3; H226 Flammable liquid and vapour.
STOT SE 3; H336 May cause drowsiness or dizziness.

2.2 Label elements

Labelling (CLP)



Signal word:

Warning

Hazard statements:

H226
H336

Flammable liquid and vapour.
May cause drowsiness or dizziness.



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Precautionary Statements:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing vapours/spray.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P370+P378 In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.
- P403+P235 Store in a well-ventilated place. Keep cool.

Special labelling

- EUH208 Contains Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700). May produce an allergic reaction.

Text for labelling: Contains 1-Methoxy-2-propanol.

2.3 Other hazards

Potentially explosive mixtures may form if adequate ventilation is not provided. Inhaling can lead to irritations of the respiratory tract and mucous membrane. Higher doses may lead to a narcotic effect. Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions:

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 203-539-1 CAS 107-98-2	1-Methoxy-2-propanol	70 - 95 %	Flam. Liq. 3; H226. STOT SE 3; H336.
EC No. 500-033-5 CAS 25068-38-6	Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	< 0.2 %	Skin Irrit. 2; H315. Eye Irrit. 2; H319. Skin Sens. 1; H317. Aquatic Chronic 2; H411.

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: IF exposed or concerned: Get medical advice/attention.
If medical advice is needed, have product container or label at hand. First aider: Pay attention to self-protection!



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- In case of inhalation: Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Make sure he/she is warm and comfortable. Seek medical attention. If victim is at risk of losing consciousness, position and transport on their side.
- Following skin contact: Remove residues with soap and water. Take off immediately all 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: Never give anything by mouth to an unconscious person. Rinse mouth immediately and drink plenty of water.
Do not induce vomiting. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause drowsiness or dizziness. May cause allergic reactions in already sensitized persons. Inhaling can lead to irritations of the respiratory tract and mucous membrane. Higher doses may lead to a narcotic effect.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Extinguishing powder, water spray jet, foam or carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet.

5.2 Special hazards arising from the substance or mixture

Flammable liquid and vapour. On contact with air, potentially explosive mixtures may develop. Vapours may proceed on the ground over great distances and cause fire and backflashes.

In case of fire may be liberated: carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information: Hazchem-Code: •2Y

Heating will lead to pressure increase: Danger of bursting and explosion. Use fine water spray to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Do not allow fire water to penetrate into surface or ground water. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/aerosol. Avoid contact with the substance. Eliminate all ignition sources if safe to do so. If possible, eliminate leakage. Provide adequate ventilation. Wear appropriate protective equipment. Keep unprotected people away. Cordon off downwind area at risk and warn inhabitants. Take off immediately all contaminated clothing and wash it before reuse.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. Danger of explosion! In case of release, notify competent authorities.

6.3 Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Beware of reignition. Thoroughly clean surrounding area. In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out). Never return spills in original containers for re-use.

Additional information: Use explosion-proof equipment and non-sparking tools/utensils.
Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe vapour/aerosol. 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. Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting equipment. Do not weld. In partially filled containers explosive mixtures may form.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Store in a well-ventilated place. Keep container tightly closed. Store in a dry place. Store in a closed container. Keep only in original container. Protect from heat and direct sunlight. Store containers in upright position.

Storage temperature: 10 °C up to 22 °C.

Hints on joint storage:

Avoid contact with strong acids, strong bases and strong oxidizing agents.
Keep away from combustible materials.
Keep away from food, drink and animal feedingstuffs.



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7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
107-98-2	1-Methoxy-2-propanol	Europe: IOELV: STEL	568 mg/m ³ ; 150 ppm (may be absorbed through the skin)
		Europe: IOELV: TWA	375 mg/m ³ ; 100 ppm (may be absorbed through the skin)
		Great Britain: WEL-STEL	560 mg/m ³ ; 150 ppm (may be absorbed through the skin)
		Great Britain: WEL-TWA	375 mg/m ³ ; 100 ppm (may be absorbed through the skin)
		Ireland: 15 minutes	568 mg/m ³ ; 150 ppm
		Ireland: 8 hours	375 mg/m ³ ; 100 ppm
1319-77-3	Cresol-isomeric mixture	Europe: IOELV: TWA	22 mg/m ³ ; 5 ppm
		Ireland: 8 hours	22 mg/m ³ ; 5 ppm (may be absorbed through the skin)

DNEL/DMEL: Information about 1-Methoxy-2-propanol:
Systemic effects:
DNEL workers, long-term, inhalative: 369 mg/m³
DNEL workers, short-term, inhalative: 553.5 mg/m³
DNEL workers, long-term, dermal: 50.6 mg/kg bw/d
DNEL consumers, long-term, inhalative: 43.9 mg/m³
DNEL consumers, long-term, dermal: 18.1 mg/kg bw/d
DNEL consumers, long-term, oral: 3.3 mg/kg bw/d

PNEC: Information about 1-Methoxy-2-propanol:
PNEC water (freshwater): 10 mg/L
PNEC water (marine water): 1 mg/L
PNEC water (intermittent release): 100 mg/L
PNEC sewage treatment plant: 100 mg/L
PNEC sediment (freshwater): 52.3 mg/kg dw
PNEC sediment (marine water): 52.2 mg/kg dw
PNEC floor: 5.49 mg/kg dw

8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Explosion protection required.

Personal protection equipment Occupational exposure controls

Respiratory protection: When aerosols and vapours form: Use appropriate respiratory protection. Respiratory protection must be worn whenever the WEL levels have been exceeded.
Use filter type A (= against vapours of organic substances) according to EN 14387.



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Hand protection:	Protective gloves according to EN 374. Glove material: butyl caoutchouc (butyl rubber) (0.5 mm). Breakthrough time: >480 min. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection:	Tightly sealed goggles according to EN 166.
Body protection:	Flame retardant, antistatic and chemical resistant protective clothing.
General protection and hygiene measures:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour/aerosol. Do not get in eyes, on skin, or on clothing. Contaminated work clothing should not be allowed out of the workplace. Take off immediately all contaminated clothing and wash it before reuse. When using do not eat or drink. Wash hands thoroughly after handling. Have eye wash bottle or eye rinse ready at work place.

Environmental exposure controls

Do not allow to enter into ground-water, surface water or drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid Colour: colourless
Odour:	sweetish
Odour threshold:	No data available
pH value:	at 20 °C, 200 g/L: 4 - 7 (1-Methoxy-2-propanol)
Melting point/freezing point:	-96 °C (1-Methoxy-2-propanol)
Initial boiling point and boiling range:	120 °C (1-Methoxy-2-propanol)
Flash point/flash point range:	32 °C (1-Methoxy-2-propanol)
Evaporation rate:	No data available
Flammability:	flammable liquid and vapour
Explosion limits:	LEL (Lower Explosion Limit): 1.70 Vol-% (1-Methoxy-2-propanol) UEL (Upper Explosive Limit): 13.10 Vol-% (1-Methoxy-2-propanol)
Vapour pressure:	at 20 °C: 12 hPa (1-Methoxy-2-propanol)
Vapour density:	at 20 °C: 3.11 (1-Methoxy-2-propanol)
Density:	at 20 °C: 0.921 g/mL (1-Methoxy-2-propanol) at 25 °C: 0.916 g/mL (1-Methoxy-2-propanol)
Water solubility:	at 20 °C: complete miscible
Partition coefficient: n-octanol/water:	-0.437 log P(o/w) (1-Methoxy-2-propanol) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, dynamic:	at 20 °C: 1.7 mPa*s (1-Methoxy-2-propanol)
Explosive properties:	Vapours can form explosive mixtures with air.
Oxidizing characteristics:	No data available

9.2 Other information

Ignition temperature:	287 °C (1-Methoxy-2-propanol)
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Refraction index: at 20 °C: 1.404 (1-Methoxy-2-propanol)

SECTION 10: Stability and reactivity

10.1 Reactivity

Flammable liquid and vapour. On contact with air, potentially explosive mixtures may develop.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Heating will lead to pressure increase: Danger of bursting and explosion.

10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.
Protect from direct sunlight.

10.5 Incompatible materials

Strong acids, strong bases and strong oxidizing agents.

10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

- 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: > 2000 mg/kg
- Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix calculated: > 2000 mg/kg
- Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix calculated (Vapours): > 20 mg/L
- Skin corrosion/irritation: Lack of data.
- Serious eye damage/irritation: Lack of data.
- Sensitisation to the respiratory tract: Lack of data.
- Skin sensitisation: Based on available data, the classification criteria are not met.
- Contains Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700). May produce an allergic 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): STOT SE 3; H336 = May cause drowsiness or dizziness.
- Specific target organ toxicity (repeated exposure): Lack of data.
- Aspiration hazard: Lack of data.
- Other information: Information about 1-Methoxy-2-propanol:
LD50 Rat, oral: 4277 mg/kg.
LD50 Rat, dermal: > 2000 mg/kg.
LC50 Rat, inhalative > 7000 ppm/6h
- Information about Cresol-isomeric mixture:
LD50 Rat, oral: 121 mg/kg.
LD50 Rabbit, dermal: 242 mg/kg.



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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Information about 1-Methoxy-2-propanol:
Algae toxicity:
EC50 *Pseudokirchneriella subcapitata* (green algae): > 1000 mg/L/7 d.
Daphnia toxicity:
LC50 *Daphnia magna* (Big water flea): 21000 - 25900 mg/L/48h.
Fish toxicity:
LC50 *Leuciscus idus*: 4000 - 10000 mg/L/96 h.
LC50 *Pimephales promelas* (fathead minnow): 20800 mg/L/96 h.
LC50 *Oncorhynchus mykiss*: >1000 mg/L/96 h.
Information about Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700):
Daphnia toxicity:
EC50 *Daphnia magna* (Big water flea): 1.1 - 3.6 mg/L/24h.
Fish toxicity:
LC50 *Oncorhynchus mykiss*: 1.5 - 7.7 mg/L/96h.

12.2 Persistence and degradability

Further details: Biodegradability:
Information about 1-Methoxy-2-propanol:
DOC reduction 96 % /28 d (OECD 301E).
Easily bio-degradable
Effects in sewage plants: Information about 1-Methoxy-2-propanol:
toxicity to microorganisms:
IC50 activated sludge: >1000 mg/L/3h (OECD 209).

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
-0.437 log P(o/w) (1-Methoxy-2-propanol)
Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 16 03 05* = Organic wastes containing hazardous substances
* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation. Do not dispose of with household waste.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle empty containers with care. Incineration may cause explosion. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:
UN 3092

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:
UN 3092, 1-METHOXY-2-PROPANOL

14.3 Transport hazard class(es)

ADR/RID: Class 3, Code: F1
IMDG: Class 3, Subrisk -
IATA-DGR: Class 3



14.4 Packing group

ADR/RID, IMDG, IATA-DGR:
III

14.5 Environmental hazards

Marine pollutant: no

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board: ADR/RID: Kemmler-number 30, UN number UN 3092
Hazard label: 3
Limited quantities: 5 L
EQ: E1
Contaminated packaging - Instructions: P001 IBC03 LP01 R001
Special provisions for packing together: MP19
Portable tanks - Instructions: T2
Portable tanks - Special provisions: TP1
Tank coding: LGBF
Tunnel restriction code: D/E



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Sea transport (IMDG)

EmS: F-E, S-D
Special provisions: -
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: T2
Tank instructions - Provisions: TP1
Stowage and handling: Category A.
Properties and observations: Colourless liquid. Flashpoint: 29°C to 35°C c.c. Explosive limits: 1,7% to 11,5%. Miscible with water. Reacts with strong oxidizing substances. Irritating to skin, eyes and mucous membranes
Segregation group: none

Air transport (IATA)

Hazard label: Flamm. liquid
Excepted Quantity Code: E1
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y344 - Max. Net Qty/Pkg. 10 L
Passenger and Cargo Aircraft: Pack.Instr. 355 - Max. Net Qty/Pkg. 60 L
Cargo Aircraft only: Pack.Instr. 366 - Max. Net Qty/Pkg. 220 L
Emergency Response Guide-Code (ERG): 3L

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations - Great Britain

Hazchem-Code: •2Y
No data available

National regulations - EC member states

Volatile organic compounds (VOC):
max. 92.5 % by weight

Labelling of packaging with <= 125mL content



Signal word: **Warning**
Hazard statements: not applicable
Precautionary Statements: not applicable
Further regulations, limitations and legal requirements:
Use restriction according to REACH annex XVII, no.: 3



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15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

H226 = Flammable liquid and vapour.

H303 = May be harmful if swallowed.

H315 = Causes skin irritation.

H317 = May cause an allergic skin reaction.

H319 = Causes serious eye irritation.

H336 = May cause drowsiness or dizziness.

H411 = Toxic to aquatic life with long lasting effects.

EUH208 = Contains Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700). May produce an allergic reaction.



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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
OEL: Occupational Exposure Limit Value
AS/NZS: Australian Standards/New Zealand Standards
ATEmix: Acute Toxicity Estimate of mixture
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
DOC: Dissolved Organic Carbon
EC50: Effective Concentration 50%
EC: European Community
EN: European Standard
EU: European Union
IATA: International Air Transport Association
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50: Inhibition Concentration 50%
IMDG Code: International Maritime Dangerous Goods Code
LC50: Median lethal concentration
LD50: Lethal dose 50%
LEL: Lower Explosion Limit
log P(o/w): Partition coefficient: octanol/water
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
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
STOT SE: Specific target organ toxicity - single exposure
TLV: Threshold Limit Value
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

Reason of change: Changes in section 9: Flash point

Date of first version: 26/10/2017

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.