



Safety data sheet according to UK REACH

Printing date 31.12.2024

Version number 3.0 (replaces version 2.0)

Revision: 31.12.2024

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

1.1 Product identifier**Trade name:** AR-N 7520 new series**Article number:** AR-N 7520.07 neu, AR-N 7520.11 neu, AR-N 7520.17 neu**1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the mixture

Intermediate product for the electronics industry. For industrial and commercial use only.

1.3 Details of the supplier of the safety data sheet**Manufacturer/Supplier:**Allresist GmbH
Am Biotop 14
15344 Strausberg
GERMANYE-Mail: info@allresist.de

Tel.: +49 3341 35 93 0

Further information obtainable from: Sales**1.4 Emergency telephone number:**

Poison center of the Charité Berlin:

+4930 30686700

E-Mail: giftnotruf@charite.de

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture**Classification according to Regulation (EC) No 1272/2008**

GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

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· Hazard pictograms



GHS02 GHS07

· Signal word Warning

· Hazard-determining components of labelling:

2-methoxy-1-methylethyl acetate

· Hazard statements

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P312 Call a POISON CENTER/doctor if you feel unwell.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	≥50-≤100%
CAS: 48180-65-0	4,4'-DIAZIDODIPHENYL ETHER ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 ATE: LD50 oral: 500 mg/kg LD50 dermal: 1,100 mg/kg LD50 inhalative: 1.5 mg/kg	≥0-<10%
CAS: 1319-77-3 EINECS: 215-293-2	cresol (mix) ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318	≥0-<1%
CAS: 556-67-2 EINECS: 209-136-7 Reg.nr.: 01-2119529238-36-XXXX	octamethylcyclotetrasiloxane ⚠ Flam. Liq. 3, H226; ⚠ Repr. 2, H361f; ⚠ Aquatic Chronic 1, H410 (M=10) PBT; vPvB	≥0.025-<0.25%

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- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After skin contact:**
If skin irritation continues, consult a doctor.
Immediately rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

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- 7.2 Conditions for safe storage, including any incompatibilities
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Recommended storage temperature:** 10-18°C
- **Storage class (TRGS):** 3
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

108-65-6 2-methoxy-1-methylethyl acetate

Oral	DNEL Long-term - oral, systemic effects	1.67 mg/kg_bw/day (rat)
Dermal	DNEL Long-term – dermal, systemic effects	153.5 mg/kg_bw/d (rat)
Inhalative	DNEL long-term - inhalation local effects	33 mg/m ³ (rat)
	DNEL Long-term – inhalation, systemic effects	275 mg/m ³ /d (rat)
	DNEL Acute - inhalation, local effects	2,420 mg/m ³ (rat)

556-67-2 octamethylcyclotetrasiloxane

Oral	DNEL Long-term - oral, systemic effects	3.7 mg/kg_bw/day (general public)
Inhalative	DNEL long-term - inhalation local effects	73 mg/m ³ (Worker) 13 mg/m ³ (general public)
	DNEL Long-term – inhalation, systemic effects	73 mg/m ³ /d (Worker) 13 mg/m ³ /d (general public)

· PNECs

108-65-6 2-methoxy-1-methylethyl acetate

PNEC short term, fresh water	0.635 mg/l (Aquatic organisms)
PNEC short term, sea water	0.0635 mg/l (Aquatic organisms)
PNEC short term, sewage plant	100 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	3.29 mg/kg (Aquatic organisms)
PNEC short term soil	0.29 mg/kg (Aquatic organisms)
PNEC short term sea water sediment	0.329 mg/kg (Aquatic organisms)
PNEC short term, intermittent releases	6.35 mg/l (Aquatic organisms)

556-67-2 octamethylcyclotetrasiloxane

PNEC short term, fresh water	0.00044 mg/l (Aquatic organisms)
PNEC short term, sea water	0.000044 mg/l (Aquatic organisms)
PNEC short term, sewage plant	10 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	0.59 mg/kg (Aquatic organisms)
PNEC short term soil	0.15 mg/kg (terrestrial organisms)
PNEC short term sea water sediment	0.059 mg/kg (Aquatic organisms)
PNEC secondary poisoning	41 mg/kg KG/d (Aquatic organisms)

- **Additional information:** The lists valid during the making were used as basis.

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- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Hand protection**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection**



Tightly sealed goggles

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Fluid
- **Colour:** Red-brown
- **Odour:** Ester-like
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** 146.4 °C (108-65-6 2-methoxy-1-methylethyl acetate)
- **Flammability** Flammable.
- **Lower and upper explosion limit**
- **Lower:** 1.5 Vol % (108-65-6 2-methoxy-1-methylethyl acetate)
- **Upper:** 10.8 Vol % (108-65-6 2-methoxy-1-methylethyl acetate)
- **Flash point:** 44 °C (108-65-6 2-methoxy-1-methylethyl acetate)
- **Decomposition temperature:** Not determined.
- **pH** Mixture is non-soluble (in water).
- **Viscosity:**
- **Kinematic viscosity** Not determined.

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· Viscosity at 100°C:	
· Dynamic:	Not determined.
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	3.4 hPa (108-65-6 2-methoxy-1-methylethyl acetate)
· Density and/or relative density	
· Density:	Not determined.
· Relative density	Not determined.
· Density (@15°C)	Not determined.
· Vapour density	Not determined.

· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	82.9-92.9 %
· VOC (EC)	82.87-92.92 %
· Change in condition	
· Evaporation rate	Not determined.

· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.

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· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

ATE (Acute Toxicity Estimates)

Oral	LD50	14,535-34,722 mg/kg
Dermal	LD50	31,977-76,389 mg/kg
Inhalative	LD50	43.6-104 mg/kg

108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8,532 mg/kg (rat)
Inhalative	LC50 (4h)	35.7 mg/l (rat)

48180-65-0 4,4'-DIAZIDODIPHENYL ETHER

Oral	LD50	500 mg/kg (ATE)
Dermal	LD50	1,100 mg/kg (ATE)
Inhalative	LD50	1.5 mg/kg (ATE)

1319-77-3 cresol (mix)

Oral	LD50	1,454 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LD50	1.21 mg/kg (rat)

556-67-2 octamethylcyclotetrasiloxane

Oral	LD50	>4,800 mg/kg (rat)
Dermal	LD50	>2,375 mg/kg (rabbit)
Inhalative	LC50 (4h)	36 mg/l (rat)

- **STOT-single exposure** May cause drowsiness or dizziness.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane	List II
556-67-2	octamethylcyclotetrasiloxane	List II; III

SECTION 12: Ecological information

· **12.1 Toxicity**· **Aquatic toxicity:**

108-65-6 2-methoxy-1-methylethyl acetate

LC50 (96h) mg/ltr.	>100 mg/ltr (Fish) 100-180 mg/ltr (Oncorhynchus mykiss) 134 mg/ltr (rainbow trout)
EC50 (48h)	408 mg/l (daphnia)
ErC50 (96h)	>1,000 mg/ltr (algae)
NOEC	100 mg/l (daphnia)

1319-77-3 cresol (mix)

LC50 (96) ppm	19 ppm (Fish)
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· **12.2 Persistence and degradability** No further relevant information available.

· **Method**

108-65-6	2-methoxy-1-methylethyl acetate	83
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· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.

· **12.7 Other adverse effects** No further relevant information available.

· **Remark:** Harmful to fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR, IMDG, IATA**

UN1993

· **14.2 UN proper shipping name**

· **ADR**

1993 FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate)

· **IMDG, IATA**

FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate)

· **14.3 Transport hazard class(es)**

· **ADR, IMDG, IATA**



· **Class**

3 Flammable liquids.

· **Label**

3

· **14.4 Packing group**

· **ADR, IMDG, IATA**

III

· **14.5 Environmental hazards:**

Not applicable.

· **14.6 Special precautions for user**

Warning: Flammable liquids.

· **Hazard identification number (Kemler code):**

30

· **EMS Number:**

F-E,S-E

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· Stowage Category	A
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (2-METHOXY-1-METHYLETHYL ACETATE), 3, III

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: (Substances not listed)**

None of the ingredients is listed.

· **Poisons Act**· **Regulated explosives precursors**

None of the ingredients is listed.

· **Regulated poisons**

1319-77-3	cresol (mix)	Listed
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· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

1319-77-3	cresol (mix)	Listed
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· **Directive 2012/18/EU**· **Named dangerous substances - ANNEX I** None of the ingredients is listed.· **Seveso category P5c** FLAMMABLE LIQUIDS· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· **Disclaimer**

This safety data sheet contains only safety relevant information. The information is based on the state of our knowledge at the time of revision, however, it does not constitute a guarantee of product properties, product information or product specifications and does not establish a contractual legal relationship. This document is only valid in its unchanged form. In the event of changes by third parties, the exhibitor accepts no responsibility for form and content or for any damages or claims arising from such changes. The information is not transferable to other products. If the product named in this safety data sheet is mixed, blended or

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processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise. The data sheet does not release the user from the obligation to ensure that he acts in accordance with all regulations in connection with his activity.

· **Relevant phrases**

- H226 Flammable liquid and vapour.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361f Suspected of damaging fertility.
- H410 Very toxic to aquatic life with long lasting effects.

· **Department issuing SDS:** Quality Management department

· **Contact:** MSDS authorized Person

· **Abbreviations and acronyms:**

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 - IMDG: International Maritime Code for Dangerous Goods
 - IATA: International Air Transport Association
 - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - VOC: Volatile Organic Compounds (USA, EU)
 - DNEL: Derived No-Effect Level (UK REACH)
 - PNEC: Predicted No-Effect Concentration (UK REACH)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
 - ATE: Acute toxicity estimate values
 - Flam. Liq. 3: Flammable liquids – Category 3
 - Acute Tox. 3: Acute toxicity – Category 3
 - Acute Tox. 4: Acute toxicity – Category 4
 - Acute Tox. 2: Acute toxicity – Category 2
 - Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 - Skin Irrit. 2: Skin corrosion/irritation – Category 2
 - Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 - Repr. 2: Reproductive toxicity – Category 2
 - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 - Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
 - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
- *** Data compared to the previous version altered.**

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