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 new, AR-N 7520.11 new, AR-N 7520.17 new
· 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
  GERMANY
  
  E-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

flammable liquid and vapour

May cause cancer.

May cause drowsiness or dizziness.

STOT SE 3

The product is classified and labelled according to the CLP regulation.
Trade name: AR-N 7520 new series

- **Hazard pictograms**
  
  ![GHS02](image1) ![GHS07](image2) ![GHS08](image3)

- **Signal word** Danger

- **Hazard-determining components of labelling:**
  - 2-methoxy-1-methylethyl acetate
  - 3,3'-dimethoxybenzidine

- **Hazard statements**
  - H226 Flammable liquid and vapour.
  - H350 May cause cancer.
  - H336 May cause drowsiness or dizziness.

- **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.
  - P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
  - P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
  - P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
  - P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - 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 | 2-methoxy-1-methylethyl acetate | Flammable Liq. 3, H226; STOT SE 3, H336 | ≥50-%≤100% |
  | CAS: 119-90-4 | 3,3'-dimethoxybenzidine | Carc. 1B, H350; Acute Tox. 4, H302 | ≥0.1-%≤10% |
  | CAS: 1319-77-3 | cresol (mix) | Acute Tox. 3, H301; Acute Tox. 3, H311; Skin Corr. 1B, H314; Eye Dam. 1, H318 | ≥0-%<1% |

- **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: 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 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 item 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.
Open and handle receptacle with care.
Prevent formation of aerosols.

Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

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
SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Substance Name</th>
<th>WEL</th>
<th>Long-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-65-6</td>
<td>2-methoxy-1-methylethyl acetate</td>
<td>Short-term value: 548 mg/m³, 100 ppm</td>
<td>Long-term value: 274 mg/m³, 50 ppm</td>
</tr>
</tbody>
</table>

DNELs

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Substance Name</th>
<th>Oral DNEL - Long-term - oral, systemic effects</th>
<th>Dermal DNEL - Long-term - dermal, systemic effects</th>
<th>Inhalative DNEL - Long-term - inhalation local effects</th>
<th>Inhalative DNEL - Long-term - inhalation, systemic effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-65-6</td>
<td>2-methoxy-1-methylethyl acetate</td>
<td>1.67 mg/kg_bw/day (rat)</td>
<td>153.5 mg/kg_bw/day (rat)</td>
<td>33 mg/m³ (rat)</td>
<td>275 mg/m³/day (rat)</td>
</tr>
</tbody>
</table>

PNECs

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Substance Name</th>
<th>PNEC short term, fresh water</th>
<th>PNEC short term, sea water</th>
<th>PNEC short term, sewage plant</th>
<th>PNEC short term fresh water sediment</th>
<th>PNEC short term soil</th>
<th>PNEC short term sea water sediment</th>
<th>PNEC short term, intermittent releases</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-65-6</td>
<td>2-methoxy-1-methylethyl acetate</td>
<td>0.635 mg/l (Aquatic organisms)</td>
<td>0.0635 mg/l (Aquatic organisms)</td>
<td>100 mg/l (Aquatic organisms)</td>
<td>3.29 mg/kg (Aquatic organisms)</td>
<td>0.29 mg/kg (Aquatic organisms)</td>
<td>0.329 mg/kg (Aquatic organisms)</td>
<td>6.35 mg/l (Aquatic organisms)</td>
</tr>
</tbody>
</table>

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

8.2 Exposure controls

Appropriate engineering controls: No further data; see item 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

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

Protective gloves

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...
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: Not applicable.
- 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)
- Auto-ignition temperature: Product is not selfigniting.
- Decomposition temperature: Not determined.
- pH: Mixture is non-soluble (in water).
- Viscosity:
  - Kinematic viscosity: Not determined.
  - 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
- Density and/or relative density
  - Density: Not determined.
  - Relative density: Not determined.
- Vapour density: Not determined.

9.2 Other information
- Appearance: Fluid
- Form: Fluid
- Important information on protection of health and environment, and on safety.
- Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- Solvent content:
  - Organic solvents: 82.9-93 %

(Contd. on page 6)
Trade name: AR-N 7520 new series

- VOC (EC) 82.88-92.95 %
- Change in condition Not determined.
- 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.
- 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

  ATE (Acute Toxicity Estimates)
  - Oral LD50 53,114--126,865 mg/kg (rat)
  - Dermal LD50 1,510,574-3,597,122 mg/kg

  108-65-6 2-methoxy-1-methylethyl acetate
  - Oral LD50 8,532 mg/kg (rat)

  119-90-4 3,3'-dimethoxybenzidine
  - Oral LD50 1,920 mg/kg (rat)

  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)
SECTION 12: Ecological information

12.1 Toxicity

**Aquatic toxicity:**

<table>
<thead>
<tr>
<th>Compound</th>
<th>LC50 (96h) ppm</th>
<th>EC50 (48h) mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-65-6 2-methoxy-1-methylethyl acetate</td>
<td>19 ppm (Fish)</td>
<td>408 mg/l (daphnia)</td>
</tr>
<tr>
<td>1319-77-3 cresol (mix)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 mg/ml (daphnia)</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability

<table>
<thead>
<tr>
<th>Compound</th>
<th>% Degradation</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-65-6 2-methoxy-1-methylethyl acetate</td>
<td>90%</td>
</tr>
<tr>
<td>78-42-2 tris(2-ethylhexyl) phosphate</td>
<td>0%</td>
</tr>
</tbody>
</table>

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

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

No further relevant information available.

12.8 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.

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.

(Contd. on page 8)
### SECTION 14: Transport information

<table>
<thead>
<tr>
<th><strong>14.1 UN number or ID number</strong></th>
<th>UN1993</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>14.2 UN proper shipping name</strong></td>
<td></td>
</tr>
<tr>
<td>ADR</td>
<td>1993 FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate)</td>
</tr>
<tr>
<td>IMDG, IATA</td>
<td>FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate)</td>
</tr>
<tr>
<td><strong>14.3 Transport hazard class(es)</strong></td>
<td></td>
</tr>
<tr>
<td>ADR, IMDG, IATA</td>
<td>3 Flammable liquids.</td>
</tr>
<tr>
<td><strong>14.4 Packing group</strong></td>
<td>III</td>
</tr>
<tr>
<td><strong>14.5 Environmental hazards:</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>14.6 Special precautions for user</strong></td>
<td>Warning: Flammable liquids.</td>
</tr>
<tr>
<td>Hazard identification number (Kemler code):</td>
<td>30</td>
</tr>
<tr>
<td>EMS Number:</td>
<td>F-E,S-E</td>
</tr>
<tr>
<td>Stowage Category</td>
<td>A</td>
</tr>
<tr>
<td><strong>14.7 Maritime transport in bulk according to IMO instruments</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Transport/Additional information:</strong></td>
<td></td>
</tr>
<tr>
<td>ADR</td>
<td></td>
</tr>
<tr>
<td>Limited quantities (LQ)</td>
<td>5L</td>
</tr>
<tr>
<td>Excepted quantities (EQ)</td>
<td>Code: E1</td>
</tr>
<tr>
<td>Maximum net quantity per inner packaging:</td>
<td>30 ml</td>
</tr>
<tr>
<td>Maximum net quantity per outer packaging:</td>
<td>1000 ml</td>
</tr>
<tr>
<td>Transport category</td>
<td>3</td>
</tr>
<tr>
<td>Tunnel restriction code</td>
<td>D/E</td>
</tr>
<tr>
<td>IMDG</td>
<td></td>
</tr>
<tr>
<td>Limited quantities (LQ)</td>
<td>5L</td>
</tr>
<tr>
<td>Excepted quantities (EQ)</td>
<td>Code: E1</td>
</tr>
<tr>
<td>Maximum net quantity per inner packaging:</td>
<td>30 ml</td>
</tr>
<tr>
<td>Maximum net quantity per outer packaging:</td>
<td>1000 ml</td>
</tr>
<tr>
<td>UN &quot;Model Regulation&quot;:</td>
<td>UN 1993 FLAMMABLE LIQUID, N.O.S. (2-METHOXY-1-METHYLETHYL ACETATE), 3, III</td>
</tr>
</tbody>
</table>
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.
- 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

- 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

- National regulations:
  - Information about limitation of use:
    Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.
  - VOC (EU) 828.8-929.5 g/l

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 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.
  - H314 Causes severe skin burns and eye damage.
  - H318 Causes serious eye damage.
  - H336 May cause drowsiness or dizziness.
  - H350 May cause cancer.

- 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 (REACH)
  - PNEC: Predicted No-Effect Concentration (REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent

(Contd. on page 10)
Trade name: AR-N 7520 new series

PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Carc. 1B: Carcinogenicity – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3