

# SAFETY DATA SHEET

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



## Adhesions promoter AR 300-80

Revision date: 23/2/2016

Version: 7

Language: en-GB,IE

Date of print: 23/2/2016

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

#### 1.1 Product identifier

Trade name: Adhesions promoter AR 300-80

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

General use: Intermediate for electronic industry

#### 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  
Germany  
WWW: [www.allresist.de](http://www.allresist.de)  
E-mail: [info@allresist.de](mailto:info@allresist.de)  
Telephone: +49 (0)33 41-35 93-0  
Telefax: +49 (0)33 41-35 93-29  
Dept. responsible for information:  
Frau Feldt, Email: [doerte.feldt@allresist.de](mailto:doerte.feldt@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. 2; H225 Highly flammable liquid and vapour.  
Eye Irrit. 2; H319 Causes serious eye irritation.  
STOT SE 3; H336 May cause drowsiness or dizziness.  
(EUH066) Repeated exposure may cause skin dryness or cracking.

#### 2.2 Label elements

##### Labelling (CLP)



Signal word:

**Danger**

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Hazard statements: H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing vapours.  
P280 Wear protective gloves/protective clothing/eye protection.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
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.

### 2.3 Other hazards

Vapours can form explosive mixtures with air.

## SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 203-603-9 CAS 108-65-6	2-Methoxy-1-methylethyl acetate	>= 75 %	CLP: Flam. Liq. 3; H226.
EC No. 200-662-2 CAS 67-64-1	Acetone	< 20 %	CLP: Flam. Liq. 2; H225. Eye Irrit. 2; H319. STOT SE 3; H336. (EUH066).

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical aid in case of troubles.
- Following skin contact: Change contaminated clothing. Remove residues with soap and water.  
In case of skin irritation, consult a physician.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.  
Subsequently consult an ophthalmologist.
- After swallowing: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.  
Give activated carbon, in order to reduce the resorption in the gastro-enteric tract.  
Never give anything by mouth to an unconscious person.

#### 4.2 Most important symptoms and effects, both acute and delayed

Information about 2-Methoxy-1-methylethyl acetate:  
Systemic effects: Drowsiness, cyanosis (blue coloured blood), unconsciousness, narcosis. damage of kidneys.  
In case of inhalation:  
central nervous system depression, Cough and shortage of breath. Pulmonary edema is possible. Symptoms may occur with delay.  
Vapours > 100 ppm: irritant.  
If higher concentrations occur: strongly irritant.  
In case of ingestion: Nausea, vomiting, central nervous system depression.  
Aspiration hazard: in case of swallowing or vomiting danger of penetration into the lungs.  
After contact with skin:  
Danger of cutaneous absorption. Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Combat acidosis. Monitor alkali reserves. Monitor breathing.  
If breathing becomes irregular or ceases, apply mouth-to-mouth resuscitation or artificial respiration immediately, where required supply oxygen.  
Attention: several hours latency period. In severe cases, pneumonia or a pulmonary edema may develop.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media:

Extinguishing powder, water fog or carbon dioxide.  
In case of large fires alcohol resistant foam or water fog.

Extinguishing media which must not be used for safety reasons:

High power water jet

#### 5.2 Special hazards arising from the substance or mixture

Highly flammable liquid and vapour. On contact with air, potentially explosive mixtures may develop.  
May form dangerous gases and vapours in case of fire.

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### 5.3 Advice for firefighters

Special protective equipment for firefighters:

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

Additional information: Hazchem-Code: •3Y

Cool endangered containers with water spray and, if possible, remove from danger zone.

Do not allow fire water to penetrate into surface or ground water.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources if safe to do so. Solvent-resistant protective clothing recommended.

Do not breathe vapours. Avoid contact with the substance.

In enclosed areas: Provide fresh air.

### 6.2 Environmental precautions

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

If necessary notify appropriate authorities.

### 6.3 Methods and material for containment and cleaning up

Take up with non-flammable, liquid binding material (e.g. sand/earth/diatomaceous earth/vermiculit) and perform disposal according to instructions. Wash spill area with plenty of water.

In case of spills of large quantities: Dam spills. Beware of reignition. Thoroughly clean surrounding area.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

Additional information: Use explosion-proof equipment and non-sparking tools/utensils.

### 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 vapours. Avoid contact with skin, eyes, and clothing. Immediately remove any contaminated clothing, shoes or stockings. Wear protective equipment.

Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.

Precautions against fire and explosion:

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. Use grounding equipment. Use only spark proof tools. Do not weld. Explosion protection required.

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### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.  
Keep away from sources of ignition and heat. Protect from direct sunlight.  
Qualified materials: steel, polypropylene.  
Unsuitable materials: Copper, zinc.  
Storage temperature: 10 °C up to 22 °C.

Hints on joint storage: Do not store together with combustible or self-igniting materials or any highly flammable solids.  
Peroxide may form when product is exposed to light and air.  
Do not store together with food.

Storage class: 3 = Flammable liquids

### 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
108-65-6	2-Methoxy-1-methylethyl acetate	Europe: IOELV: STEL	550 mg/m <sup>3</sup> ; 100 ppm (May be absorbed through the skin.)
		Europe: IOELV: TWA	275 mg/m <sup>3</sup> ; 50 ppm (May be absorbed through the skin.)
		Great Britain: WEL-STEL	548 mg/m <sup>3</sup> ; 100 ppm
		Great Britain: WEL-TWA	274 mg/m <sup>3</sup> ; 50 ppm
		Ireland: 15 minutes	550 mg/m <sup>3</sup> ; 100 ppm (May be absorbed through the skin.)
67-64-1	Acetone	Ireland: 8 hours	275 mg/m <sup>3</sup> ; 50 ppm (May be absorbed through the skin.)
		Europe: IOELV: TWA	1210 mg/m <sup>3</sup> ; 500 ppm
		Great Britain: WEL-STEL	3620 mg/m <sup>3</sup> ; 1500 ppm
		Great Britain: WEL-TWA	1210 mg/m <sup>3</sup> ; 500 ppm
Ireland: 8 hours	1210 mg/m <sup>3</sup> ; 500 ppm IOELV		

### 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: Respiratory protection must be worn whenever the WEL levels have been exceeded. 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.

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Hand protection: Protective gloves according to EN 374.  
Glove material: butyl caoutchouc (butyl rubber)-Layer thickness: 0.7 mm  
Breakthrough time: >480 min.  
Unsuitable materials: natural rubber, nitrile rubber.  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Use solvent-resistant protective clothing.  
Recommendation: Flame-retardant protective clothing, antistatic.

General protection and hygiene measures:  
Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.  
Wash hands before breaks and after work.  
Do not breathe vapour/aerosol. Avoid contact with skin and eyes.  
When using do not eat, drink or smoke.  
Have eye wash bottle or eye rinse ready at work place.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance: Form: liquid  
Colour: light brown, clear

Odour: ester-like

Odour threshold: no data available

pH value: no data available

Melting point/freezing point: no data available

Initial boiling point and boiling range: 56 °C (Acetone)

Flash point/flash point range: 7 °C

Evaporation rate: no data available

Flammability: Highly flammable liquid and vapour.

Explosion limits: LEL (Lower Explosion Limit): 1.50 Vol-%  
UEL (Upper Explosive Limit): 13.00 Vol-%

Vapour pressure: at 20 °C: 4.9 hPa

Vapour density: no data available

Density: at 20 °C: 0.95 g/mL

Solubility: Soluble in organic solvents.

Water solubility: at 20 °C: 200 - 220 g/L

Partition coefficient: n-octanol/water: (2-Methoxy-1-methylethyl acetate) 0.43 log P(o/w)  
Bio-accumulation is not to be expected (log P(o/w) <1).

Auto-ignition temperature: no data available

Thermal decomposition: no data available

Viscosity, dynamic: no data available

Explosive properties: Vapours can form explosive mixtures with air.

Oxidizing characteristics: no data available

### 9.2 Other information

Ignition temperature: 315 °C

Additional information: Relative vapour density (air=1): 4.56

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Highly flammable liquid and vapour. Concentrated vapours are heavier than air.  
Forms explosive mixtures with air, also in empty, uncleaned containers.

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

May produce, when being mixed with chloridized hydrocarbons and exposed to light, strongly irritating chloric acetone.  
Peroxide may form when product is exposed to light and air.

#### 10.4 Conditions to avoid

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

#### 10.5 Incompatible materials

Attacks many plastics and rubbers.  
Avoid contact with strong oxidizing agents, alkalis and amines.

#### 10.6 Hazardous decomposition products

Hazardous vapours may form during fires.

Thermal decomposition: no data available

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Toxicological effects: Acute toxicity (oral): Lack of data.  
Acute toxicity (dermal): Lack of data.  
Acute toxicity (inhalative): Lack of data.  
Skin corrosion/irritation: Lack of data.  
Eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.  
Sensitisation to the respiratory tract: Lack of data.  
Skin sensitisation: Lack of data.  
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 2-Methoxy-1-methylethyl acetate:  
LD50 Rat, oral: 6190 mg/kg  
LD50 Rabbit, dermal: 7500 mg/kg

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### Symptoms

Information about 2-Methoxy-1-methylethyl acetate:

Systemic effects: Drowsiness, cyanosis (blue coloured blood), unconsciousness, narcosis. damage of kidneys.

In case of inhalation:

central nervous system depression, Cough and shortage of breath. Pulmonary edema is possible. Symptoms may occur with delay.

Vapours > 100 ppm: irritant.

If higher concentrations occur: strongly irritant.

In case of ingestion: Nausea, vomiting, central nervous system depression.

Aspiration hazard: in case of swallowing or vomiting danger of penetration into the lungs.

After contact with skin:

Danger of cutaneous absorption. Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity:

Information about 2-Methoxy-1-methylethyl acetate:

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 408 mg/L/48h.

Fish toxicity:

LC50 Pimephales promelas (fathead minnow): 161 mg/L/96h.

### 12.2. Persistence and degradability

Further details:

Information about 2-Methoxy-1-methylethyl acetate:

Biodegradation:

100 %/8 d (OECD 302 B)

57.4 %/20 d (closed bottle test)

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

(2-Methoxy-1-methylethyl acetate) 0.43 log P(o/w)

Bio-accumulation is not to be expected (log P(o/w) <1).

### 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: 07 07 04\* = wastes from the MFSU of fine chemicals and chemical products not otherwise specified

\* = Evidence for disposal must be provided.

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.

##### Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. 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: UN 1993

#### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA: UN 1993, FLAMMABLE LIQUID, N.O.S. (2-Methoxy-1-methylethyl acetate, Acetone solution)

#### 14.3 Transport hazard class(es)

ADR/RID: Class 3, Code: F1

IMDG: Class 3, Subrisk -

IATA: Class 3



#### 14.4 Packing group

ADR/RID, IMDG, IATA: II

#### 14.5 Environmental hazards

Marine pollutant: No

#### 14.6 Special precautions for user

##### Land transport (ADR/RID)

Warning board: ADR/RID: Kemmler-number 33, UN number 1993

Hazard label: 3

Special provisions: 274 601 640E

Limited quantities: 1 L

EQ: E2

Contaminated packaging - Instructions: P001 - IBC02 - R001

Special provisions for packing together: MP19

Portable tanks - Instructions: T4

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: 1L  
EQ: E2  
Contaminated packaging - Instructions: P001  
Contaminated packaging - Provisions: -  
IBC - Instructions: IBC02  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: T4  
Tank instructions - Provisions: TP1  
Stowage and handling: Category E  
Properties and observations: -

### Air transport (IATA)

Hazard: Flammable liquid  
EQ: E2  
Passenger Ltd.Qty.: Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L  
Passenger: Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L  
Cargo: Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L  
Special Provisioning: A3  
ERG: 3H

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 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: •3Y

#### National regulations - EC member states

Volatile organic compounds (VOC):  
99 % by weight = 940 g/L

#### Labelling of packaging with <= 125mL content



Signal word: **Danger**

Hazard statements: H336 May cause drowsiness or dizziness.  
EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements: P261 Avoid breathing vapours.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 Call a POISON CENTER/doctor if you feel unwell.

### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

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### SECTION 16: Other information

#### Further information

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

H225 = Highly flammable liquid and vapour.

H226 = Flammable liquid and vapour.

H319 = Causes serious eye irritation.

H336 = May cause drowsiness or dizziness.

EUH066 = Repeated exposure may cause skin dryness or cracking.

Reason of change: General revision (Regulation (EU) Nr. 2015/830)

Date of first Version: 7/10/2010

#### Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

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.