

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 453/2010



## Remover AR 300-76

Revision date: 4/3/2015

Version: 1

Language: en-GB,IE

Date of print: 7/4/2015

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

#### 1.1 Product identifier

Trade name: Remover AR 300-76

#### 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)

Eye Irrit. 2; H319 Causes serious eye irritation.

Classification according to Directive 67/548/EEC or 1999/45/EC

This preparation is classified as not hazardous.

#### 2.2 Label elements

Labelling (CLP)



Signal word:

**Warning**

Hazard statements:

H319

Causes serious eye irritation.

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### Precautionary statements:

- P264 Wash hands and face thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.

### Labelling (67/548/EEC or 1999/45/EC)

R phrase(s): not applicable

S phrase(s): not applicable

### 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

Chemical characterisation:

Mixture of the following listed substances with safe additions  
Dibasic Esters (DBE): Reaction mass of dimethyl adipate and dimethyl glutarate and dimethyl succinate.

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 203-419-9 CAS 106-65-0	Dimethyl succinate	15 - 25 %	DSD/DPD: Xi; R36. CLP: Eye Irrit. 2; H319.

Additional information: Contains Dimethyl glutarate and Dimethyl adipate. The maximum workplace exposure limits are, where necessary, listed in section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General information: Immediately remove any contaminated clothing, shoes or stockings.  
Never give anything by mouth to an unconscious person.
- In case of inhalation: Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Seek medical treatment in case of troubles.  
If victim is at risk of losing consciousness, position and transport on their side.
- Following skin contact: Thoroughly wash skin with soap and water. 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. Subsequently consult an ophthalmologist.
- After swallowing: Rinse mouth and drink large quantities of water. Seek medical attention.  
Do not induce vomiting.

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

Causes serious eye irritation.  
Following skin contact: mild irritant

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### 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:

Water fog, extinguishing powder, carbon dioxide.

In case of large fires: Water fog, alcohol resistant foam.

Extinguishing media which must not be used for safety reasons:

High power water jet

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

Combustible. Vapours can form explosive mixtures with air.

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 breathing apparatus.

Additional information: Hazchem-Code: -

Use fine water spray to cool endangered containers. Danger of bursting container.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

## SECTION 6: Accidental release measures

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

Eliminate all ignition sources if safe to do so. Keep unprotected people away.

Avoid contact with skin and eyes. Wear suitable protective clothing.

Provide adequate ventilation. Do not breathe vapour/aerosol.

### 6.2 Environmental precautions

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

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).

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.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling: Provide for good room ventilation, suctioning/venting.  
Avoid the formation of aerosol. Do not breathe vapour/aerosol.  
Avoid contact with skin, eyes, and clothing.  
Wear protective equipment.

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.  
Vapours can form explosive mixtures with air.

### 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.  
Storage temperature: 15 °C up to 25 °C.

Hints on joint storage:

Do not store together with combustible or self-igniting materials or any highly flammable solids.  
Do not store together with: Acids, alkalis, strong oxidizing agents  
Do not store together with food.

Storage class:

10 = Combustible liquids, unless storage class 3

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Additional information: Contains no substances with occupational exposure limit values.

DNEL/DMEL:

Information about Dimethyl succinate:

DNEL long-term, workers, inhalative, systemic: 33.5 mg/m<sup>3</sup>

DNEL short-term, workers, inhalative, systemic: 67 mg/m<sup>3</sup>

DNEL long-term, workers, inhalative, local: 1.1 mg/kg bw/d

DNEL short-term, workers, inhalative, local: 1.1 mg/kg bw/d

Information about Dibasic Esters (DBE):

DNEL Long-term, workers, inhalative: 8.3 mg/m<sup>3</sup>

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PNEC: Information about Dimethyl succinate:  
PNEC water (freshwater): 50 µ/L  
PNEC water (marine water): 5 µg/L  
PNEC water (intermittent release): 500 µg/L  
PNEC sediment (freshwater): 137 µ/kg  
PNEC sediment (marine water): 14 µ/kg  
PNEC soil): 137 µ/kg  
PNEC sewage treatment plant): 10,000 mg/L  
Information about Dibasic Esters (DBE):  
PNEC water (freshwater): 0.018 mg/L  
PNEC water (marine water): 0.0018 mg/L  
PNEC water (intermittent release): 0.18 mg/L  
PNEC sediment (freshwater): 0.16 mg/kg dwt  
PNEC sediment (marine water): 0.016 mg/kg dwt  
PNEC soil: 0.09 mg/kg dwt  
PNEC sewage treatment plant: 10 mg/L

### 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. Use filter type A according to EN 14387. identification colour brown.

Hand protection: Protective gloves according to EN 374.  
Glove material: butyl caoutchouc (butyl rubber) - Layer thickness: >=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:  
Take off immediately all contaminated clothing. When using do not eat, drink or smoke.  
Wash hands before breaks and after work. Avoid contact with skin and eyes. Do not breathe vapour/aerosol. Work place should be equipped with a shower and an eye rinsing apparatus.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance: Form: liquid  
Colour: colourless

Odour: sweet

Odour threshold: not determined

pH value: not determined

Melting point/freezing point: -20 °C

Initial boiling point and boiling range: 196 - 225 °C

Flash point/flash point range: 103 °C

Evaporation rate: not determined

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Flammability:	not applicable
Explosion limits:	LEL (Lower Explosion Limit): 0.90 Vol-% UEL (Upper Explosive Limit): 8.00 Vol-%
Vapour pressure:	at 20 °C: 0.08 hPa
Vapour density:	not determined ((Air = 1))
Density:	at 20 °C: 1.092 g/cm <sup>3</sup>
Water solubility:	at 20 °C: 53 g/L
Partition coefficient: n-octanol/water:	not determined
Auto-ignition temperature:	not self-igniting
Thermal decomposition:	not determined To avoid thermal decomposition, do not overheat.
Viscosity, dynamic:	2.6 mPa*s
Viscosity, kinematic:	not determined
Explosive properties:	Product is not explosive. Vapours can form explosive mixtures with air.
Oxidizing characteristics:	not oxidising

### 9.2 Other information

Ignition temperature: 370 °C

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Vapours can form explosive mixtures with air.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Do not expose to high temperature. Danger of bursting and explosion.

### 10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.  
Protect against direct sunlight. Take precautionary measures against static discharges.

### 10.5 Incompatible materials

Strong acids, alkalis, oxidizing agents.

### 10.6 Hazardous decomposition products

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

Thermal decomposition: not determined  
To avoid thermal decomposition, do not overheat.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity:

LD50 Rat, oral: > 5000 mg/kg

LD50 Rat, dermal: > 2250 mg/kg

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Toxicological effects:

- Acute toxicity (oral): Based on available data, the classification criteria are not met.
- Acute toxicity (dermal): Based on available data, the classification criteria are not met.
- Acute toxicity (inhalative): Lack of data.
- Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- Eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.
- Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.
- Skin sensitisation: Based on available data, the classification criteria are not met.
- Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.
- Carcinogenicity: Lack of data.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- 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: Based on available data, the classification criteria are not met.

### Symptoms

After contact with skin: mild irritant

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity:

- Algae toxicity:  
EC50 algae: 46.9 mg/L/72h
- Daphnia toxicity:  
LC50 Daphnia magna (Big water flea): 17 mg/L/48h
- Fish toxicity:  
LC50 Lepomis macrochirus (bluegill): 7.5 mg/L/96h

### 12.2. Persistence and degradability

Further details: Biodegradation: 87 %/28 d.  
Product is readily biodegradable.

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:  
not determined

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

### 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 08\* = other still bottoms and reaction residues  
\* = 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: not applicable

#### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA: Not restricted

#### 14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA: not applicable

#### 14.4 Packing group

ADR/RID, IMDG, IATA: not applicable

#### 14.5 Environmental hazards

Marine pollutant: No

#### 14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

#### 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: -

##### National regulations - EC member states

Volatile organic compounds (VOC):

100 % by weight = 1092 g/L



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



Signal word:

**Warning**

Hazard statements:

not applicable

Precautionary statements:

not applicable

### 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:

H319 = Causes serious eye irritation.

Wording of the R-phrases under section 2 and 3:

R 36 = Irritating to eyes.

Date of first version:

4/3/2015

### 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.