



# SAFETY DATA SHEET

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

Revision date: 11/7/2019

Version: 11

Language: en-GB,IE

Date of print: 28/8/2020

## Thinner AR 300-12 & AR 300-12 MIF

Material number AR 300-12 & AR 300-12 MIF

Page: 1 of 11

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

#### 1.1 Product identifier

Trade name: Thinner AR 300-12 & AR 300-12 MIF

REACH registration No.: 01-2119475791-29-xxxx

CAS-Number: 108-65-6

EC-number: 203-603-9

EU index number: 607-195-00-7

#### 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  
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  
Department responsible for information:  
Frau Dr. Zimmermann, Email: [produktion@allresist.de](mailto:produktion@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.

#### 2.2 Label elements

##### Labelling (CLP)



Signal word: **Warning**

Hazard statements: H226 Flammable liquid and vapour.



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## Thinner AR 300-12 & AR 300-12 MIF

Material number AR 300-12 & AR 300-12 MIF

Page: 2 of 11

### Precautionary Statements:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- 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

Text for labelling: Contains 2-Methoxy-1-methylethyl acetate.

### 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.

### Results of PBT and vPvB assessment:

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

## SECTION 3: Composition / information on ingredients

### 3.1 Substances

Chemical characterisation: C<sub>6</sub> H<sub>12</sub> O<sub>3</sub> = CH<sub>3</sub>COOCH<sub>2</sub>CH(OCH<sub>3</sub>)CH<sub>3</sub>

2-Methoxy-1-methylethyl acetate

Stabiliser: 2,6-di-tert-Butyl-p-cresol

CAS-Number: 108-65-6

EC-number: 203-603-9

EU index number: 607-195-00-7

RTECS-Number: A18925000

### Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 274-724-2 CAS 70657-70-4	2-Methoxypropyl acetate	< 0.3 %	Flam. Liq. 3; H226. Repr. 1B; H360D. STOT SE 3; H335.

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!  
If victim is at risk of losing consciousness, position and transport on their side.

In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical aid in case of troubles.



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## Thinner AR 300-12 & AR 300-12 MIF

Material number AR 300-12 & AR 300-12 MIF

Page: 3 of 11

- Following skin contact: Remove residues with soap and water. Change contaminated clothing. 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. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.
- After swallowing: 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

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.  
In case of large fires: alcohol resistant foam or water spray jet.

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.  
With air, vapours form potentially explosive mixtures, which are heavier than air. Vapours may proceed on the ground over great distances and cause fire and backflashes.  
May form dangerous gases and vapours in case of fire. 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: •3Y

Heating will lead to pressure increase: Danger of bursting and explosion. Keep containers cool with water spray.

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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## Thinner AR 300-12 & AR 300-12 MIF

Material number AR 300-12 & AR 300-12 MIF

Page: 4 of 11

### SECTION 6: Accidental release measures

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

Do not breathe vapour/aerosol. Avoid contact with the substance.  
Ensure adequate ventilation, especially in confined areas.  
Eliminate all ignition sources if safe to do so. If possible, eliminate leakage.  
Wear appropriate protective equipment. Keep unprotected people away.  
Cordon off downwind area at risk and warn inhabitants.

#### 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).

#### 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. Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.  
Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.  
Take off immediately all contaminated clothing and wash it before reuse.  
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.  
When handling large quantities, supply emergency spray.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.  
Take precautionary measures against static discharges.  
Use only explosion-protected equipment/instruments. 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:

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

Hints on joint storage: Do not store together with strong oxidizing agents.

#### 7.3 Specific end use(s)

No information available.



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## Thinner AR 300-12 & AR 300-12 MIF

Material number AR 300-12 & AR 300-12 MIF

Page: 5 of 11

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limit values:

Type	Limit value
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 (may be absorbed through the skin)
Great Britain: WEL-TWA	274 mg/m <sup>3</sup> ; 50 ppm (may be absorbed through the skin)
Ireland: 15 minutes	550 mg/m <sup>3</sup> ; 100 ppm (may be absorbed through the skin)
Ireland: 8 hours	275 mg/m <sup>3</sup> ; 50 ppm (may be absorbed through the skin)

DNEL/DMEL: Systemic effects:  
DNEL long-term, workers, inhalative: 275 mg/m<sup>3</sup>  
DNEL long-term, workers, dermal: 153.5 mg/kg  
DNEL long-term, consumer, oral: 1.67 mg/kg  
DNEL long-term, consumer, inhalative: 33 mg/m<sup>3</sup>  
DNEL long-term, consumer, dermal: 54.8 mg/kg

PNEC: PNEC water (freshwater): 0.635 mg/L  
PNEC water (marine water): 0.0635 mg/L  
PNEC water (intermittent release): 6.35 mg/L  
PNEC water (freshwater sediment): 3.29 mg/kg  
PNEC water (marine sediment): 0.329 mg/kg  
PNEC soil: 0.29 mg/kg  
PNEC sewage treatment plant: 100 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: When aerosols and vapours form: Use appropriate respiratory protection. Use filter type A (= against vapours of organic substances) according to EN 14387. 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.

Hand protection: Protective gloves according to EN 374.  
Glove material: butyl caoutchouc (butyl rubber)-Layer thickness: 0.7 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.



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Date of print: 28/8/2020

## Thinner AR 300-12 & AR 300-12 MIF

Material number AR 300-12 & AR 300-12 MIF

Page: 6 of 11

### 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.

When using do not eat or drink.

Wash hands thoroughly after handling.

When handling large quantities, supply emergency spray.

## 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, clear
Odour:	characteristic, ether
Odour threshold:	No data available
pH value:	No data available
Melting point/freezing point:	-66 °C
Initial boiling point and boiling range:	145.8 °C (OECD 103)
Flash point/flash point range:	45.5 °C (cc, ASTM D3278)
Evaporation rate:	No data available
Flammability:	Flammable liquid and vapour.
Explosion limits:	No data available
Vapour pressure:	at 20 °C: 3.5997 hPa (OECD 104)
Vapour density:	No data available
Density:	at 20 °C: approx. 0.967 g/mL
Solubility:	organic solvents
Water solubility:	at 20 °C: 198 g/L
Partition coefficient: n-octanol/water:	1.2 log K(o/w) (OECD 117) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
Auto-ignition temperature:	333 °C (DIN 51794)
Decomposition temperature:	No data available
Viscosity, kinematic:	at 20 °C: 1.23 mm <sup>2</sup> /s at 25 °C: 1.13 mm <sup>2</sup> /s
Explosive properties:	Product is not explosive. Vapours can form explosive mixtures with air.
Oxidizing characteristics:	none

### 9.2 Other information

Ignition temperature:	333 °C
Molecular weight	132.16 g/mol

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Flammable liquid and vapour. Vapours can form explosive mixtures with air.



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Date of print: 28/8/2020

## Thinner AR 300-12 & AR 300-12 MIF

Material number AR 300-12 & AR 300-12 MIF

Page: 7 of 11

### 10.2 Chemical stability

Stable under recommended storage conditions.

Stabiliser: 2,6-di-tert-Butyl-p-cresol

### 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. Protect from moisture contamination.

### 10.5 Incompatible materials

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

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity: LD50 Rat oral: > 5000 mg/kg (OECD 401)  
LD50 Rabbit dermal: > 2000 mg/kg (OECD 402)  
LC0 Rat inhalative, Vapours: > 43.45 mg/L/6h

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): Based on available data, the classification criteria are not met.  
Skin corrosion/irritation: Based on available data, the classification criteria are not met.  
Serious eye damage/irritation: Based on available data, the classification criteria are not met.  
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: Lack of data.  
Carcinogenicity: Based on available data, the classification criteria are not met.  
Reproductive toxicity: Based on available data, the classification criteria are not met.  
Effects on or via lactation: Based on available data, the classification criteria are not met.  
Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.  
Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.  
Aspiration hazard: Based on available data, the classification criteria are not met.



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## Thinner AR 300-12 & AR 300-12 MIF

Material number AR 300-12 & AR 300-12 MIF

Page: 8 of 11

### SECTION 12: Ecological information

#### 12.1 Toxicity

Aquatic toxicity: Daphnia toxicity:  
EC50 Daphnia magna (Big water flea): > 500 mg/L/48h  
Fish toxicity:  
LC50 Oncorhynchus mykiss: 134 mg/L/96h (OECD 203)  
Algae toxicity:  
EC50 Pseudokirchneriella subcapitata (green algae): > 1000 mg/L/96h

#### 12.2 Persistence and degradability

Further details: Biodegradability: 83 % /10 d (OECD 301 F).  
Easily bio-degradable

Oxygen demand: BSB5: 330 mg/g  
CSB: 1520 mg/kg  
DOC: 523 mg/g

Effects in sewage plants: EC10 activated sludge: >1000 mg/L/30min (OECD 209)

#### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:  
1.2 log K(o/w) (OECD 117)  
Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

#### 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

AOX reference: Product does not contain organically bound halogen (AOX).  
General information: Do not allow to enter into ground-water, surface water or drains.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product

Waste key number: 07 01 04\* = organic solvents, halogen-free  
\* = 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 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.





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Date of print: 28/8/2020

## Thinner AR 300-12 & AR 300-12 MIF

Material number AR 300-12 & AR 300-12 MIF

Page: 9 of 11

### SECTION 14: Transport information

#### 14.1 UN number

ADR/RID, IMDG, IATA-DGR:

UN 3272

#### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

UN 3272, ESTERS, N.O.S. (2-Methoxy-1-methylethyl acetate)

#### 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 3272

Hazard label:

3

Special provisions:

274 601

Limited quantities:

5 L

EQ:

E1

Contaminated packaging - Instructions:

P001 IBC03 LP01 R001

Special provisions for packing together:

MP19

Portable tanks - Instructions:

T4

Portable tanks - Special provisions:

TP1 TP29

Tank coding:

LGBF

Tunnel restriction code:

D/E

##### Sea transport (IMDG)

EmS:

F-E, S-D

Special provisions:

223, 274

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:

T4

Tank instructions - Provisions:

TP1, TP29

Stowage and handling:

Category A.

Properties and observations:

-

Segregation group:

none



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## Thinner AR 300-12 & AR 300-12 MIF

Material number AR 300-12 & AR 300-12 MIF

Page: 10 of 11

### 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  
Special provisions: A3  
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: •3Y  
No data available

#### National regulations - EC member states

Volatile organic compounds (VOC):  
100 % by weight = 967 g/L

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



Signal word: **Warning**  
Hazard statements: not applicable  
Precautionary Statements:  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

### 15.2 Chemical Safety Assessment

No data available

## SECTION 16: Other information

### Further information

Wording of the H-phrases under paragraph 2 and 3:  
H226 = Flammable liquid and vapour.  
H335 = May cause respiratory irritation.  
H360D = May damage the unborn child.



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## Thinner AR 300-12 & AR 300-12 MIF

Material number AR 300-12 & AR 300-12 MIF

Page: 11 of 11

### 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  
AOX: Adsorbable Organic Halogens  
AS/NZS: Australian Standards/New Zealand Standards  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
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  
IMDG Code: International Maritime Dangerous Goods Code  
LC0: Lethal concentration 0%  
LC50: Median lethal concentration  
LD50: Lethal dose 50%  
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  
UN: United Nations  
vPvB: Very persistent and very bioaccumulative  
WEL: Workplace Exposure Limit

Reason of change: Changes in section 1.3: Department responsible for information

Date of first version: 18/8/2010

### 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.