

# SAFETY DATA SHEET

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



## Developer AR 300-26

Material number AR 300-26

Revision date: 15/1/2018  
Version: 10

Language: en-GB,IE

Date of print: 13/6/2018  
Page: 1 of 9

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

### 1.1 Product identifier

Trade name: Developer AR 300-26

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

General use: Intermediate for electronic industry  
Reserved for industrial and professional use.

### 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)

Met. Corr. 1; H290 May be corrosive to metals.  
Skin Corr. 1B; H314 Causes severe skin burns and eye damage.

### 2.2 Label elements

#### Labelling (CLP)



Signal word: **Danger**

Hazard statements: H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

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## Developer AR 300-26

Material number AR 300-26

Revision date: 15/1/2018  
Version: 10

Language: en-GB,IE

Date of print: 13/6/2018  
Page: 2 of 9

Precautionary statements: P260 Do not breathe vapours.  
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].  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P390 Absorb spillage to prevent material damage.

### Special labelling

Text for labelling: Contains Sodium hydroxide

### 2.3 Other hazards

Contains Disodium tetraborate: May damage fertility. May damage the unborn child.  
Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

No data available

## SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Chemical characterisation: Aqueous solution

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119490790-32-xxxx EC No. 215-540-4 CAS 1303-96-4	Disodium tetraborate x 10 H <sub>2</sub> O (SVHC)	5 - 8 %	Eye Irrit. 2; H319. Repr. 1B; H360FD.
REACH 01-2119457892-27-xxxx EC No. 215-185-5 CAS 1310-73-2	Sodium hydroxide	< 5 %	Met. Corr. 1; H290. Skin Corr. 1A; H314.

Full text of H- and EUH-statements: see section 16.

Additional information: This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: Disodium tetraborate x 10 H<sub>2</sub>O (CMR)

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information: First aider: Pay attention to self-protection!  
If medical advice is needed, have product container or label at hand. Take off immediately all contaminated clothing.

In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately get medical attention.

Following skin contact: Clean with plenty of water. If possible, also wash with polyethylene glycol 400. Cover with sterile dressing material to protect against infection. Seek medical attention.

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 seek the immediate attention of an ophthalmologist.

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



## Developer AR 300-26

Material number AR 300-26

Revision date: 15/1/2018  
Version: 10

Language: en-GB,IE

Date of print: 13/6/2018  
Page: 3 of 9

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.  
Do NOT induce vomiting. Risk of perforation! Do not try to neutralize.  
Immediately call a POISON CENTER/doctor.

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

Causes severe skin burns and eye damage.

### 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:

Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

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

Fires in the immediate vicinity may cause the development of dangerous vapours.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

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

Additional information:

Hazchem-Code: 2R

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

Avoid contact with the substance. Wear suitable protective clothing.

Do not breathe vapours. Provide adequate ventilation.

If possible, eliminate leakage. Keep unprotected people away.

### 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

Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder.

Store in special closed containers and dispose of according to ordinance. Final cleaning.

Render harmless: Neutralize with dilute sulphuric acid.

Additional information:

Special danger of slipping by leaking/spilling product.

### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

# SAFETY DATA SHEET

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



## Developer AR 300-26

Material number AR 300-26

Revision date: 15/1/2018  
Version: 10

Language: en-GB,IE

Date of print: 13/6/2018  
Page: 4 of 9

## 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. 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. Have eye wash bottle or eye rinse ready at work place.

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

Requirements for storerooms and containers:

Keep container tightly closed. Keep only in original container.  
Do not use aluminium, tin, or zinc containers. May attack plastics.  
Protect from heat and direct sunlight.  
Storage temperature: 10 °C up to 22 °C.

Hints on joint storage:

Do not store together with strong acids or ammonium compounds.  
Keep away from food, drink and animal feedingstuffs.

### 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
1303-96-4	Disodium tetraborate x 10 H <sub>2</sub> O (SVHC)	Great Britain: WEL-TWA Ireland: 8 hours	5 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>
1310-73-2	Sodium hydroxide	Great Britain: WEL-STEL Ireland: 15 minutes	2 mg/m <sup>3</sup> 2 mg/m <sup>3</sup>

### 8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.  
When aerosols and vapours form: Withdraw by suction.

### Personal protection equipment

#### Occupational exposure controls

Respiratory protection: When aerosols and vapours form: Use filter type B-(P3) 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: Nitrile rubber-Layer thickness: 0.11 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: Wear suitable protective clothing.

# SAFETY DATA SHEET

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



## Developer AR 300-26

Material number AR 300-26

Revision date: 15/1/2018  
Version: 10

Language: en-GB,IE

Date of print: 13/6/2018  
Page: 5 of 9

General protection and hygiene measures:

Do not breathe vapours. Do not get in eyes, on skin, or on clothing.  
Take off immediately all contaminated clothing and wash it before reuse.  
Wash hands before breaks and after work.  
When using do not eat or drink.  
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:	Physical state at 20 °C and 101.3 kPa: liquid Colour: colourless
Odour:	odourless
Odour threshold:	No data available
pH value:	at 20 °C: 13.6
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	No data available
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Density:	at 20 °C: 1.054 g/mL
Water solubility:	at 20 °C: soluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	No data available
Oxidizing characteristics:	No data available

### 9.2 Other information

Additional information: No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

May be corrosive to metals. Formation of hydrogen (Danger of explosion!)

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

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

# SAFETY DATA SHEET

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



## Developer AR 300-26

Material number AR 300-26

Revision date: 15/1/2018  
Version: 10

Language: en-GB,IE

Date of print: 13/6/2018  
Page: 6 of 9

### 10.5 Incompatible materials

Acids, nitrile, ammonium compounds, cyanides, phenols, organic nitro compounds.

### 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

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Lack of data.  
Acute toxicity (dermal): Lack of data.  
Acute toxicity (inhalative): Lack of data.  
Skin corrosion/irritation: Skin Corr. 1B; H314 = Causes severe skin burns and eye damage.  
Serious eye damage/irritation: Lack of data.  
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: 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: Lack of data.

Other information: Information about Caustic soda 10%: LD50 Rat, oral: 325 mg/kg

### Symptoms

Systemic effects: Collapse, death.  
In case of inhalation: Burns, damage of respiratory tract.  
In case of ingestion: Burns in the mouth, pharynx, oesophagus, and gastrointestinal tract.  
Risk of perforation in the oesophagus and stomach.

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Harmful effects on water organisms by modification of pH-value.

### 12.2 Persistence and degradability

Further details: No data available

### 12.3 Bioaccumulative potential

Bioconcentration factor (BCF):  
no data available

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



## Developer AR 300-26

Material number AR 300-26

Revision date: 15/1/2018  
Version: 10

Language: en-GB,IE

Date of print: 13/6/2018  
Page: 7 of 9

### 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.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste key number: 06 02 04\* = Sodium and potassium hydroxide, solution  
\* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable local, state, and federal regulations governing corrosive liquids.

#### Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID, IMDG, IATA-DGR:  
UN 1824

### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:  
UN 1824, SODIUM HYDROXIDE SOLUTION

### 14.3 Transport hazard class(es)

ADR/RID: Class 8, Code: C5  
IMDG: Class 8, Subrisk -  
IATA-DGR: Class 8

### 14.4 Packing group

ADR/RID, IMDG, IATA-DGR:  
II

### 14.5 Environmental hazards

Marine pollutant: no



# SAFETY DATA SHEET

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



## Developer AR 300-26

Material number AR 300-26

Revision date: 15/1/2018  
Version: 10

Language: en-GB,IE

Date of print: 13/6/2018  
Page: 8 of 9

### 14.6 Special precautions for user

#### Land transport (ADR/RID)

Warning board: ADR/RID: Kemmler-number 80, UN number UN 1824  
Hazard label: 8  
Limited quantities: 1 L  
EQ: E2  
Contaminated packaging - Instructions: P001 IBC02  
Special provisions for packing together: MP15  
Portable tanks - Instructions: T7  
Portable tanks - Special provisions: TP2  
Tank coding: L4BN  
Tunnel restriction code: E

#### Sea transport (IMDG)

EmS: F-A, S-B  
Special provisions: -  
Limited quantities: 1 L  
Excepted quantities: E2  
Contaminated packaging - Instructions: P001  
Contaminated packaging - Provisions: -  
IBC - Instructions: IBC02  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: T7  
Tank instructions - Provisions: TP2  
Stowage and handling: Category A.  
Segregation: SG35  
Properties and observations: Colourless liquid. Corrosive to aluminium, zinc and tin. Reacts with ammonium salts, evolving ammonia gas. Causes burns to skin, eyes and mucous membranes. Reacts violently with acids.  
Segregation group: 18

#### Air transport (IATA)

Hazard label: Corrosive  
Excepted Quantity Code: E2  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y840 - Max. Net Qty/Pkg. 0.5 L  
Passenger and Cargo Aircraft: Pack.Instr. 851 - Max. Net Qty/Pkg. 1 L  
Cargo Aircraft only: Pack.Instr. 855 - Max. Net Qty/Pkg. 30 L  
Special provisions: A3 A803  
Emergency Response Guide-Code (ERG): 8L

### 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: 2R  
No data available



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## Developer AR 300-26

Material number AR 300-26

Revision date: 15/1/2018  
Version: 10

Language: en-GB,IE

Date of print: 13/6/2018  
Page: 9 of 9

### National regulations - EC member states

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



Signal word:

**Danger**

Hazard statements:

H314

Causes severe skin burns and eye damage.

Precautionary statements:

P260

Do not breathe vapours.

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].

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER/doctor.

### 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:

H290 = May be corrosive to metals.

H314 = Causes severe skin burns and eye damage.

H319 = Causes serious eye irritation.

H360FD = May damage fertility. May damage the unborn child.

Reason of change:

Changes in section 2: Labelling (P-phrases, ATP8)

Date of first version:

23/8/2010

### 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.

