ALLRESIST



Safety data sheet according to 1907/2006/EC, Article 31

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

- · 1.1 Product identifier
- Trade name: <u>AR 300-26</u>
- Article number: AR 300-26
- **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



Met. Corr.1H290 May be corrosive to metals.Skin Corr. 1AH314 Causes severe skin burns and eye damage.Eye Dam.1H318 Causes serious eye damage.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.
- Hazard pictograms



· Signal word Danger

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· Hazard-determi	ning components of labelling:
sodium hydroxid	
· Hazard statemen	nts
H290 May be co	rrosive to metals.
H314 Causes set	vere skin burns and eye damage.
· Precautionary st	tatements
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.
P260	Do not breathe dusts or mists.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
	protection.
	31 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P3	53 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.
P310	Immediately call a POISON CENTER/doctor.
P305+P351+P3	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
· 2.3 Other hazar	ds
· 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 compone	ents:	
CAS: 1303-96-4	Disodium tetraborate, decahydrate	≥2.5-<8.5%
EINECS: 215-540-4	Repr. 1B, H360FD;	
CAS: 1310-73-2	sodium hydroxide	≥2-≤2.5%
EINECS: 215-185-5	♦ Met. Corr.1, H290; Skin Corr. 1A, H314 Specific concentration limits: Skin Corr. 1A; H314: $C \ge 5$ %	1
	Specific concentration limits: Skin Corr. 1A; H314: $C \ge 5$ %	
	<i>Skin Corr. 1B; H314: 2 % ≤ C < 5 %</i>	
	<i>Skin Irrit. 2; H315: 0.5 % ≤ C < 2 %</i>	
	<i>Eye Irrit.</i> 2; <i>H</i> 319: 0.5 % \leq <i>C</i> $<$ 2 %	
·SVHC		

1303-96-4 Disodium tetraborate, decahydrate

· 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 inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.

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- After eve contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 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: Use fire extinguishing methods suitable to surrounding conditions.

• 5.2 Special hazards arising from the substance or mixture

- During heating or in case of fire poisonous gases are produced.
- · 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.
- · 6.2 Environmental precautions: Dilute with plenty of water. 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). Use neutralising agent. 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. Prevent formation of aerosols.

- Information about fire and explosion protection: 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: 10-22°C
- Storage class (TRGS): 8 B
- 7.3 Specific end use(s) No further relevant information available.

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	ol parameters		
	ts with limit values that requ	ire monitoring at th	ne workplace:
	sodium hydroxide		
WEL Shor	rt-term value: 2 mg/m ³		
DNELs			
1303-96-4	Disodium tetraborate, decal	hydrate	
Oral	DNEL Long-term - oral, sys	temic effects	0.79 mg/kg_bw/day (general public)
	DNEL Acute - oral, systemic	c effects	0.79 mg/kg bw/day (general public)
Dermal	DNEL Long-term – dermal,	systemic effects	316.4 mg/kg_bw/day (Worker)
			159.5 mg/kg_bw/day (general public)
Inhalative	DNEL Long-term – inhalati	on, systemic effects	6.7 mg/m³/day (Worker)
			3.4 mg/m³/day (general public)
1310-73-2	sodium hydroxide		
Inhalative	DNEL long-term - inhalatio	n local effects	1 mg/m ³ (Worker)
			1 mg/m³ (general public)
	DNEL Acute - inhalation, lo	cal effects	2 mg/m³ (Worker)
			2 mg/m³ (general public)
PNECs			1
	Disodium tetraborate, decal	hvdrate	
	rt term, fresh water	2.9 mg/l (Aquatic o	organisms)
	rt term, sea water	2.9 mg/l (Aquatic o	
	rt term, sewage plant	10 mg/l (Aquatic organisms)	
PNEC sho	01	5.7 mg/kg (Aquatic organisms)	
	sodium hydroxide	<i>••••</i>	, e. gantana)
	rt term, fresh water	6.4 mg/l (Aquatic o	organisms)
	rt term, sea water	0.64 mg/l (Aquatic	
	rt term, sewage plant	51 mg/l (Aquatic o	
	rt term, sewage plant rt term fresh water sediment		
	rt term soil	23 mg/kg (Aquatic organisms)	
	rt term son	0.853 mg/kg (teresstric organismens) 2.3 mg/kg (Aquatic organisms)	
	rt term, intermittent releases [information: The lists valid		
		uning me making	were used us dusis.
	ure controls		. 7
	te engineering controls No fa protection measures, such a		
	rotective and hygienic measures		
Keep away	y from foodstuffs, beverages a	ind feed.	
	ly remove all soiled and cont		
	ls before breaks and at the er fact with the eyes.	ia of work.	
	act with the eyes.		
	y protection:		
In case of	brief exposure or low pollution		filter device. In case of intensive or longer expo
use self-co	ntained respiratory protectiv	e device.	

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· Hand protection

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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 chemic General Information	
Physical state	Fluid
Colour:	Colourless
Odour:	Odourless
Odour threshold:	Not determined.
Melting point/freezing point:	$\sim 0 \circ C$
Boiling point or initial boiling point and boiling	Ig
range	~100 °C
Flammability	Not applicable.
Lower and upper explosion limit	* *
Lower:	1 Vol %
Upper:	7.5 Vol %
Flash point:	Not applicable.
Auto-ignition temperature:	Product is not selfigniting.
Decomposition temperature:	Not determined.
pH at 20 °C	13.6
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water at 20 °C:	1.8 g/l
Partition coefficient n-octanol/water (log value	e) Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	1.054 g/cm^3
Relative density	Not determined.

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Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of heal environment, and on safety.	th and
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	Trouver ubes not present un explosion nuzuru.
Water:	92.0 %
VOC (EC)	0.00 %
Solids content:	0.00%
Change in condition	0.0 78
Evaporation rate	Not determined.
•	
Information with regard to physical hazard of	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
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 flamm	able
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	May be corrosive to metals.
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

· LD/LC50 values relevant for classification:		
Oral	Acute Toxicity Estimate of ingredient (ATE) oral	>5,000 mg/kg (Worker)
Dermal	Schätzwerte akuter Toxicität	>2,000 mg/kg (Worker)
Inhalative	Acute toxicity Estimate inhalative (4h)	>20 mg/l (Worker)

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1310-73-2 sodium hydroxide

Oral LD50

2,000 mg/kg (rat)

Skin corrosion/irritation Causes severe skin burns and eye damage.
Serious eye damage/irritation Causes serious eye damage.

• 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

• Aquatic toxicity:

1310-73-2 sodium hydroxide

LC50 (96h) mg/ltr. 196 mg/ltr (Fish)

EC50 (48h) 40.4 mg/l (Freshwater Invertebrates)

• 12.2 Persistence and degradability No further relevant information available.

• 12.3 Bioaccumulative potential

1310-73-2 sodium hydroxide -3,88

· 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.
- Additional ecological information:
- General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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.

- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- *Recommended cleansing agents: Water, if necessary together with cleansing agents.*

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA

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14.2 UN proper shipping name ADR IMDG, IATA	1824 SODIUM HYDROXIDE SOLUTION SODIUM HYDROXIDE SOLUTION
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
- Class	8 Corrosive substances.
Label	8
14.4 Packing group	
ADR, IMDG, IATA	II
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Corrosive substances.
Hazard identification number (Kemler code):	80
EMS Number:	F-A,S-B
Segregation groups	Alkalis
Stowage Category	A
Segregation Code	SG35 Stow "separated from" SGG1-acids
14.7 Maritime transport in bulk according to IM	
instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
T	Maximum net quantity per outer packaging: 500 ml
Transport category Tunnel restriction code	2 E
	Ŀ
· IMDG	17
Limited quantities (LQ)	1L Code: E2
Excepted quantities (EQ)	
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
	1 11 1 0 0
UN "Model Regulation":	UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II

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.

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• National regulations:

• Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

1303-96-4 Disodium tetraborate, decahydrate

• VOC (EU) 0.0 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

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.

· 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 PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Met. Corr.1: Corrosive to metals - Category 1 Skin Corr. 1A: Skin corrosion/irritation – Category 1A Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Repr. 1B: Reproductive toxicity - Category 1B