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

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

1.1 Product identifier

Trade name: Remover AR 300-70 (NEP), AR 300-72 (NEP) REACH registration No.: 01-2119472138-36-XXXX

CAS-Number: 2687-91-4

EC-number: 220-250-6

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
E-mail:	info@allresist.de
Telephone:	+49 (0)33 41-35 93-0
Telefax:	+49 (0)33 41-35 93-29
Dept. responsible for info	prmation:

Frau Feldt, Email: 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 Dam. 1; H318 Causes serious eye damage. Repr. 1B; H360D May damage the unborn child.

Classification according to directive 67/548/EEC

Repr. Cat. 2; R61 May cause harm to the unborn child. Xi; R41 Risk of serious damage to eyes.

2.2 Label elements

Labelling (CLP)



Signal word:



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

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Hazard statements:	H318	Causes serious eye damage.		
	H360D	May damage the unborn child.		
Precautionary stateme	ents:			
	P202	Do not handle until all safety precautions have been read	and understo	ood.
	P281	Use personal protective equipment as required.		
	P305+P351+P	+P338		
	P308+P313	IF IN EYES: Rinse cautiously with water for several minu lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention.	ites. Remove	contact
	P405	Store locked up.		
	P501	Dispose of contents/container to hazardous or special wa	aste collectior	n point.
Labelling (67/54	8/EEC or 1999	/45/EC) T		

R phrase(s):R 61May cause harm to the unborn child.
R 41Risk of serious damage to eyes.S phrase(s):S 26In case of contact with eyes, rinse immediately with plenty of water and
seek medical advice.S 37Wear suitable gloves.
S 39S 39Wear eye/face protection.

2.3 Other hazards

No risks worthy of mention.

SECTION 3: Composition / information on ingredients

3.1 Substances

Chemical characterisation:

	C6 H11 N O
	1-Ethylpyrrolidin-2-one, N-Ethyl-2-pyrrolidon
CAS-Number:	2687-91-4
EC-number:	220-250-6
RTECS-Number:	UY5769250

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of inhalation:	Provide fresh air.
Following skin contact:	Remove residues with water. Change contaminated clothing. Seek medical attention if irritation persists.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently seek the immediate attention of an ophthalmologist.
After swallowing:	Rinse mouth immediately and drink plenty of water. If you feel unwell, seek medical advice.

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4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation: May cause irritations. In case of ingestion: Swallowing may cause gastrointestinal irritation and pain of guts, also by more respiration irritation of the lungs. After resorption: Nausea, vomiting, cough, Diarrhoea, drowsiness, dizziness. After eye contact: Causes serious eye damage. Causes tears.

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, foam, extinguishing powder, carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Combustible. The vapours of the product are heavier than air. In case of strong heating: Vapours can form explosive mixtures with air.

In case of fire may be liberated: Carbon monoxide and carbon dioxide, nitrogen oxides (NOx).

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus. Wear suitable protective clothing.

Additional information: Hazchem-Code: -

Do not allow fire water to penetrate into surface or ground water. Use water spray jet to knock down vapours.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with the substance. Do not breathe vapour/aerosol. Ensure adequate ventilation, especially in confined areas.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Soak up with absorbent materials such as sand, siliceus earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance. Final cleaning.

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: Avoid contact with skin and eyes. Do not breathe vapours. Provide adequate ventilation, and local exhaust as needed.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed. Storage temperature 10-22 °C.

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.

8.2 Exposure controls

When aerosols and vapours form: Withdraw by suction.

Personal protection equipment

Occupational exposure controls

Respiratory protection:	If vapours form, use respiratory protection. Use filter type A (= against vapours of organic substances) according to EN 14387.
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:	Wear suitable protective clothing.
General protection and h	nygiene measures: Immediately remove any contaminated clothing, shoes or stockings.

Wash hands before breaks and after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Odour: Odour threshold:	Form: liquid Colour: colourless up to yellow amine-like no data available
pH value:	at 23 °C, 100 g/L: 8.2
Melting point/freezing point:	-100 °C
Initial boiling point and boiling range:	212.5 °C
Flash point/flash point range:	91 °C (DIN 51758)
Evaporation rate:	no data available
Flammability:	no data available
Explosion limits:	LEL (Lower Explosion Limit): 1.30 Vol-% UEL (Upper Explosive Limit): 7.70 Vol-%
Vapour pressure:	at 32 °C: 0.5 hPa
Vapour density:	no data available

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Density:	at 20 °C: 0.9974 g/mL		
Water solubility:	at 20 °C: soluble		
Partition coefficient: n-octanol/water:	-0.04 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		
Viscosity, kinematic:	at 20 °C: 2.1 mm²*s		
Explosive properties:	no data available		
Oxidizing characteristics:	no data available		
9.2 Other information			
Ignition temperature:	250 °C (DIN 51794)		
Additional information:	Molar mass: 113,16 g/mol Relative vapour density (air=1): 3,90		

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

Violent reaction with: oxidizing agents, strong acids, strong bases, acid chlorides.

10.4 Conditions to avoid

heating

10.5 Incompatible materials

see section 10.3

10.6 Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide and carbon dioxide, nitrogen oxides (NOx).

Thermal decomposition: no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: LD50 Rat, oral: 3200 mg/kg LD50 Rat, dermal: > 2000 mg/kg (OECD 402) LC50 Rat, inhalative: > 5.1 mg/L/4h (OECD 403)

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Toxicological effects:	Acute toxicity (oral): Based on available data, the classification criter be harmful if swallowed.	ia are not met.	Мау
	Acute toxicity (dermal): Based on available data, the classification c	iteria are not m	net.
	Acute toxicity (inhalative): Based on available data, the classification	criteria are not	t met.
	Skin corrosion/irritation: Based on available data, the classification of Specific symptoms in animal studies (Rabbit): Not an irritant (OECD Eye damage/irritation: Eye Dam. 1; H318 = Causes serious eye dar	404).	net.
	Specific symptoms in animal studies (Rabbit): Strongly irritant (OEC	•	
	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: Repr. 1B; H360D = May damage the unborn c	hild.	
	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:	Further hazardous properties cannot be excluded.		
Symptoms			
	In case of inhalation: May cause irritations. In case of ingestion: Swallowing may cause gastrointestinal irritation and pain of guts, als irritation of the lungs. After resorption: Nausea, vomiting, cough, Diarrhoea, drowsiness, of After eye contact: Causes serious eye damage. Causes tears.		iration

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: EC50 Pseudomonas putida: >1000 mg/L/16h Fish toxicity: LC50 Brachydanio rerio (zebra-fish) 446-999 mg/L/96h (OECD 203).

12.2. Persistence and degradability

Further details: Biodegradation: 90-100 %/28 d (OECD 301 A). Product is not readily biodegradable.

Oxygen demand:

COD: 2,11 g/g

12.3 Bioaccumulative potential

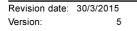
Partition coefficient: n-octanol/water:

-0.04 log P(o/w)

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

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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: 16 05 06* = organic solvents, halogen-free * = Evidence for disposal must be provided.

Recommendation: Send to a hazardous waste incinerator facility under observation of official regulations.

Contaminated packaging

 Waste key number:
 15 01 07 = Glass packaging.

 Recommendation:
 Dispose of waste according to applicable legislation. 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:

14.6 Special precautions for user

No

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

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations - Great Britain

Hazchem-Code:

15.2 Chemical Safety Assessment

no data available

SECTION 16: Other information

Further information

Reason of change: Changes in section 3.2: substance name, synonymes Date of first version: 19/8/2010

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.

