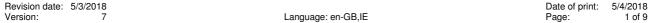
according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Stopper AR 600-61

Material number AR 600-61



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

1.1 Product identifier

Trade name: Stopper AR 600-61

CAS-Number: 112-34-5
EC-number: 203-961-6
EU index number: 603-096-00-8

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

 E-mail:
 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

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.

2.2 Label elements

Labelling (CLP)



Signal word: Warning

Hazard statements: H319 Causes serious eye irritation.

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.

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

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2.3 Other hazards

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

Chemical characterisation: C8 H18 O3 = CH3-(CH2)3-O-(CH2)2-O-(CH2)2-OH

2-(2-Butoxyethoxy)ethanol

Water content 20%

CAS-Number: 112-34-5
EC-number: 203-961-6
EU index number: 603-096-00-8
RTECS-Number: KJ9100000

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: IF exposed or concerned: Get medical advice/attention. First aider: Pay attention to

self-protection!

In case of inhalation: Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Seek

medical attention.

Following skin contact: Remove residues with soap and water. Take off contaminated clothing and wash it

before reuse. 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. 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. Never give

anything by mouth to an unconscious person. Consult physician.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation.

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 spray jet, alcohol resistant foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

Combustible. May form dangerous gases and vapours in case of fire. Furthermore, there may develop: Carbon monoxide and carbon dioxide.

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

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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: -

Use fine water spray to cool endangered containers.

Do not allow water used to extinguish fire to enter drains, ground or waterways.

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

Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapour/aerosol/mist. Keep unprotected people away. Take off contaminated clothing and wash it before reuse. Wear appropriate protective equipment.

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, siliceus earth, acid- or universal binder.

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

Special danger of slipping by leaking/spilling product. Additional information:

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. Avoid contact with skin and eyes. Do not breathe vapour/aerosol/mist. Wear appropriate protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Store container tightly closed in a dry and cool place. Store only in original container. Protect from heat and direct sunlight. Store containers in upright position. Avoid

admission of air/oxygene (formation of peroxide).

Unsuitable materials: Aluminium, copper, light metals.

Storage temperature 10 - 22 °C.

Hints on joint storage: Do not store together with oxidizing agents or light metals.

Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

No information available.

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

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

Туре	Limit value	
Europe: IOELV: STEL	101.2 mg/m³; 15 ppm	
Europe: IOELV: TWA	67.5 mg/m³; 10 ppm	
Great Britain: WEL-STEL	101.2 mg/m³; 15 ppm	
Great Britain: WEL-TWA	67.5 mg/m³; 10 ppm	
Ireland: 15 minutes	101.2 mg/m³; 15 ppm IOELV	
Ireland: 8 hours	67.5 mg/m³; 10 ppm IOELV	

DNEL/DMEL: DNEL long-term, workers, inhalative: 67.5 mg/m³ (systemic/local)

DNEL short-term, workers, inhalative, local: 101.2 mg/m³ DNEL short-term, workers, dermal, systemic: 20 mg/kg

PNEC: PNEC water (freshwater): 1 g/L

PNEC water (marine water): 0.1 g/L PNEC water (intermittent release): 3.9 g/L PNEC sediment (freshwater): 4 mg/kg dw PNEC sediment (marine water): 0.4 mg/kg dw

PNEC soil: 0.4 mg/kg dwt

PNEC sewage treatment plant: 200 mg/L PNEC Secondary poisoning (food): 56 mg/kg

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded.

Use filter type A (= against vapours of organic substances) according to EN 14387. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

Hand protection: protective gloves according to EN 374.

During full contact:

Glove material: Nitrile rubber - Layer thickness: 0.4 mm.

Breakthrough time: 480 min. During splash contact:

Glove material: nitrile rubber - Layer thickness: 0.2 mm.

Breakthrough time: 49 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 hygiene measures:

Do not breathe vapour/aerosol/mist. Avoid contact with skin and eyes. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. When handling large quantities,

supply emergency spray.

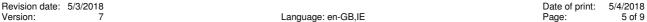
Environmental exposure controls

Do not allow to enter into ground-water, surface water or drains.

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

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa: liquid Appearance:

Colour: colourless

Odour: weak

No data available Odour threshold:

at 20 °C: 7 pH value: approx. -68 °C Melting point/freezing point: approx. 224 - 228 °C Initial boiling point and boiling range:

99°C (c.c.) Flash point/flash point range: Evaporation rate: No data available No data available Flammability:

LEL (Lower Explosion Limit): 0.90 Vol-% Explosion limits:

UEL (Upper Explosive Limit): 6.20 Vol-%

at 130 °C: 40 hPa Vapour pressure:

5.6 Vapour density:

at 20 °C: approx. 0.95 - 0.96 g/mL Density: Water solubility: at 20 °C: completely miscible

at 20 °C: 1 log P(o/w) Partition coefficient: n-octanol/water:

Based on the n-octanol/water partition coefficient significant accumulation

in organisms is not expected.

210 °C (1.013,25 hPa) Auto-ignition temperature: No data available Decomposition temperature: at 20 °C: 5.9 mPa*s Viscosity, dynamic: Viscosity, kinematic: at 20 °C: 6.122 mm²/s Explosive properties: No data available Oxidizing characteristics: No data available

9.2 Other information

Molecular weight 162.2 g/mol

Surface tension: 32.8 mN/m at 20 °C Additional information:

SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to 10.3

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions with proper and specified storage and handling.

10.4 Conditions to avoid

Protect from heat and direct sunlight.

Keep away from sources of ignition - No smoking. Avoid admission of air/oxygene (formation of peroxide).



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

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10.5 Incompatible materials

Oxidizing agents, light metals.

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: 7291 mg/kg (OECD 401)

LD50 Rabbit, dermal: 2764 mg/kg (OECD 402)

LC50 Rat, inhalative: > 29 ppm/2h

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.

Specific symptoms in animal studies (Rabbit): mild irritant (OECD 404)

Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Specific symptoms in animal studies (Rabbit): Irritant (OECD 405)

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Based on available data, the classification criteria are not met. Specific symptoms in animal studies (guinea pig): not sensitising (OECD 406)

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria

are not met.

Specific symptoms in animal studies (Salmonella typhimurium): Negative in the Ames

test. (OECD 477)

Carcinogenicity: Based on available data, the classification criteria are not met. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Specific symptoms in animal studies (Rat): negative

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.

General remarks

Warning - substance not yet tested completely. Further hazardous properties cannot be excluded.

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

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Daphnia toxicity:

EC50 Daphnia magna (Big water flea): > 100 mg/L/48h. (EC Directive 67/548/EEC)

Fish toxicity:

LC50 Lepomis macrochirus (bluegill): 1,300 mg/L/96h. (OECD 203)

Algae toxicity:

EC50 Desmodesmus subspicatus (green algae): > 100 mg/L/96h (OECD 201)

Bacterial toxicity:

LC50 Pseudomonas putida: 1,170 mg/L/16h

12.2 Persistence and degradability

Further details: Biodegradation:

91,7%/28d (OECD 301B) Easily bio-degradable

Oxygen demand: Biological oxygen demand (BOD5): 0,25 g/g

Chemical oyxgen demand (COD): 2,08 g/g

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

at 20 °C: 1 log P(o/w)

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

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

Recommendation:

Waste key number: 16 05 06* = laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals
* = Evidence for disposal must be provided.

Dispose of waste according to applicable legislation.

Do not dispose of with household waste.

Do not empty into drains.

Contaminated packaging

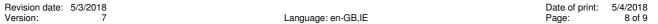
Recommendation: Dispose of waste according to applicable legislation.

Non-contaminated packages may be recycled.

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

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SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:

not applicable

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

Not restricted

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

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 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:

No data available

National regulations - EC member states

Volatile organic compounds (VOC):

100 % by weight = 960 g/L

Restrictions on use: REACH, annex XVII: No. 55

Labelling of packaging with <= 125mL content



Signal word: Warning

Hazard statements: not applicable Precautionary statements: not applicable

15.2 Chemical Safety Assessment

No data available

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

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SECTION 16: Other information

Further information

Reason of change: General revision
Date of first version: 18/8/2010

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.

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