

# SAFETY DATA SHEET

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



## Stopper AR 600-60

Revision date: 23/3/2015

Version: 9

Language: en-GB,IE

Date of print: 21/5/2015

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

#### 1.1 Product identifier

Trade name: Stopper AR 600-60

CAS-Number: 67-63-0

EC-number: 200-661-7

EU index number: 603-117-00-0

#### 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](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)

Fam. Liq. 2; H225 Highly flammable liquid and vapour.  
Eye Irrit. 2; H319 Causes serious eye irritation.  
STOT SE 3; H336 May cause drowsiness or dizziness.

##### Classification according to directive 67/548/EEC

F; R11 Highly flammable.  
Xi; R36 Irritating to eyes.  
R67 Vapours may cause drowsiness and dizziness.

#### 2.2 Label elements

##### Labelling (CLP)



Signal word:

**Danger**

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Hazard statements:	H225	Highly flammable liquid and vapour.
	H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness.
Precautionary statements:	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P261	Avoid breathing vapours.
	P280	Wear protective gloves and eye 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.
	P403+P233	Store in a well-ventilated place. Keep container tightly closed.

### Labelling (67/548/EEC or 1999/45/EC)



F



Xi

highly flammable irritant

R phrase(s):	R 11	Highly flammable.
	R 36	Irritating to eyes.
	R 67	Vapours may cause drowsiness and dizziness.
S phrase(s):	S (2)	Keep out of the reach of children.
	S7	Keep container tightly closed.
	S 16	Keep away from sources of ignition. - No smoking.
	S 24/25	Avoid contact with skin and eyes.
	S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### 2.3 Other hazards

Potentially explosive mixtures may form if adequate ventilation is not provided. Vapours are slightly irritating to mucous membranes.  
Higher doses may lead to a narcotic effect.  
Prolonged/repetitive skin contact may cause skin defatting or dermatitis.  
May cause sensitisation especially in sensitive humans.

## SECTION 3: Composition / information on ingredients

### 3.1 Substances

Chemical characterisation:	CH <sub>3</sub> -CH(OH)CH <sub>3</sub> , Isopropyl alcohol
CAS-Number:	67-63-0
EC-number:	200-661-7
EU index number:	603-117-00-0
RTECS-Number:	NT8050000

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- In case of inhalation: Move victim to fresh air. If unconscious and breathing is OK, place in the recovery position and seek medical advice. If breathing becomes irregular or ceases, apply mouth-to-mouth resuscitation or artificial respiration immediately, where required supply oxygen. Seek medical attention.
- Following skin contact: After contact with skin, wash immediately with soap and plenty of water. Take off immediately all contaminated clothing. If skin irritation occurs: Consult physician immediately.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if any. Afterwards, consult an ophthalmologist immediately.
- After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately get medical attention. Do not give fatty oils and milk.

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

May cause drowsiness or dizziness. Causes serious eye irritation. Higher doses may lead to a narcotic effect. After resorption: Headache, dizziness, inebriation, unconsciousness.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Attention in case of vomiting and stomach pumping: danger of aspiration. Accelerate intestinal transit. Rinse mouth immediately and drink plenty of water. Give sodium sulfate as laxative (1 tablespoon in 1 glass of water) with plenty of activated coal. Otherwise, continue with symptomatic treatment.

If breathing becomes irregular or ceases, apply mouth-to-mouth resuscitation or artificial respiration immediately, where required supply oxygen.

Supervision and correction of circulation, balance of acid-base and electrolyte as well as blood-sugar level. During the after-treatment a diet rich in carbohydrates, proteins and vitamins, poor in fats.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media:

Water fog, extinguishing powder, alcohol resistant foam, 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

Highly flammable liquid and vapour. Liquid evaporates quickly. Vapours are heavier than air and will spread at floor level. Vapours can form explosive mixtures with air. Beware of reignition. In case of fire may be liberated: 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.

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Additional information: Hazchem-Code: •2YE  
Use fine water spray to cool endangered containers.  
Move undamaged containers from immediate hazard area if it can be done safely.  
Heating causes rise in pressure with risk of bursting.  
Suppress gases/vapours/mists with water spray jet.  
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.

## SECTION 6: Accidental release measures

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

Eliminate all ignition sources if safe to do so. Provide adequate ventilation. Do not breathe vapours. Avoid contact with the substance. Wear protective equipment. Keep unprotected people away.  
Cordon off downwind area at risk and warn inhabitants.

### 6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.  
Risk of explosion if the liquid enters the sewage system.  
If necessary notify appropriate authorities.

### 6.3 Methods and material for containment and cleaning up

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out). Dam spills and pump to remove. Close all lower level rooms. Contact expert.  
Absorb leftover product with non-flammable liquid-binding material (e.g. earth, sand, vermiculite or ground sand stone) and place in closed containers for disposal.

Additional information: In case of spills of large quantities: Seal off endangered area. Restrict access to affected areas. In neighborhoods and industrial areas, warn inhabitants.

### 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 good ventilation and/or an exhaust system in the work area. Use only in well-ventilated areas. Use solvent-resistant equipment. Do not breathe vapours. Avoid contact with skin and eyes. Wear protective equipment.  
Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Take off contaminated clothing. Preventive skin protection.

Precautions against fire and explosion:

Take precautionary measures against static discharges. Keep away from sources of ignition. - No smoking. With air, vapours form potentially explosive mixtures, which are heavier than air. In partially filled containers explosive mixtures may form.  
Use only explosion-protected equipment/instruments. Do not weld.

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

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.  
Breakable containers may not exceed 5,5 liters. Maximum fill: 95 %  
Storage temperature 10-22 °C.

Hints on joint storage:

Do not store together with combustible or self-igniting materials or any highly flammable solids. Avoid contact with strong oxidizing agents.  
Keep away from food, drink and animal feedingstuffs. Avoid contact with strong acid, Alkalis and alkaline earth metals.

Storage class:

3 = Flammable liquids

### 7.3 Specific end use(s)

intermediate for electronic industry

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values:

Type	Limit value
Great Britain: WEL-STEL	1250 mg/m <sup>3</sup> ; 500 ppm
Great Britain: WEL-TWA	999 mg/m <sup>3</sup> ; 400 ppm
Ireland: 15 minutes	400 ppm
Ireland: 8 hours	200 ppm

DNEL/DMEL:

DNEL long-term, workers, dermal, systemic: 888 mg/kg/d  
DNEL long-term, workers, inhalative, systemic: 500 mg/m<sup>3</sup>  
DNEL long-term, consumers, dermal, systemic: 319 mg/kg/d  
DNEL long-term, consumers, inhalative, systemic: 89 mg/m<sup>3</sup>  
DNEL long-term, consumers, oral, systemic: 26 mg/kg/d

PNEC:

PNEC water (freshwater): 140.9 mg/L  
PNEC water (marine water): 140.9 mg/L  
PNEC water (intermittent release): 140.9 mg/L  
PNEC sediment: 552 mg/kg  
PNEC soil: 28 mg/kg  
PNEC sewage treatment plant (stp): 2251 mg/L  
PNEC oral: 160 mg/kg food

### 8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

### 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.

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Hand protection: protective gloves according to EN 374.  
Glove material:  
- Butyl caoutchouc (butyl rubber), layer thickness: ( $\geq 0.5$  mm), breakthrough time: 8 h  
- Fluororubber (Viton), layer thickness: ( $\geq 0.4$  mm), breakthrough time: 8 h  
- Nitrile rubber, layer thickness: ( $\geq 0.35$  mm), breakthrough time: 8 h  
- Polychloroprene, layer thickness: ( $\geq 0.5$  mm), breakthrough time: 4 h  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear flame-resistant antistatic protective clothing.

General protection and hygiene measures:  
Use solvent-resistant equipment. Avoid contact with skin, eyes, and clothing. Take off immediately all contaminated clothing.  
Do not breathe vapours. When using do not eat, drink or smoke.  
Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.  
Wash hands before breaks and after work. 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: Form: liquid  
Colour: colourless, clear

Odour: alcoholic  
Odour threshold: no data available

pH value: neutral

Melting point/freezing point:  $-89.5$  °C

Initial boiling point and boiling range:  $82$  °C (DIN 53171)

Flash point/flash point range:  $12$  °C (DIN 51755)

Evaporation rate: no data available

Flammability: Highly flammable liquid and vapour.

Explosion limits: LEL (Lower Explosion Limit): 2.00 Vol-%  
UEL (Upper Explosive Limit): 12.00 Vol-%

Vapour pressure: at  $20$  °C: 48 hPa  
at  $50$  °C: 225 hPa

Vapour density: no data available

Density: at  $20$  °C: 0.785 g/mL

Water solubility: at  $20$  °C: completely miscible

Partition coefficient: n-octanol/water: 0.05 log P(o/w) (OECD 107)  
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: at  $20$  °C: 2.43 mPa\*s

Explosive properties: Not explosive. Vapours can form explosive mixtures with air.

Oxidizing characteristics: no data available

### 9.2 Other information

Ignition temperature:  $425$  °C (DIN 51794)

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Refraction index: at 20 °C: 1.376 - 1.378  
Additional information: Molar mass: 60.11 g/mol  
Relative vapour density at 20 °C (air=1): 2  
Evaporation rate: 11 (ether = 1, DIN 53170)  
Saturation concentration at 20 °C 106000 mg/m<sup>3</sup>

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Highly flammable liquid and vapour.  
Vapours can form explosive mixtures with air.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Exothermic reactions with strong acid.  
Liquid evaporates quickly. Vapours are heavier than air and will spread at floor level.  
Vapours can form explosive mixtures with air. Beware of reignition.  
Do not expose to high temperature. Danger of bursting and explosion.

### 10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.

### 10.5 Incompatible materials

Strong acid, Oxidising agent, pyrophoric solids.  
Reacts at room temperature with alkali, less so with alkaline earth metals (with formation of hydrogen), at higher temperatures a measurably stronger reaction occurs.

### 10.6 Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide and carbon dioxide.

Thermal decomposition: no data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity:

LD50 Rat, oral: 5840 mg/kg (OECD 401)  
LD50 Rabbit, dermal: 13900 mg/kg (OECD 403)  
LC50 Rat, inhalative: > 25 mg/L/6h (OECD 402)

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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.
- Eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.
- 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.
- 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.
- Gene-mutations mammalian cells (in-vitro, hamster): negative (OECD 476).
- Bacterial mutagenicity: negative (in-vitro, Ames test) (OECD 471) .
- Micronucleus test: (in-vivo, Mouse): negative (OECD 474).
- 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): STOT SE 3; H336 = May cause drowsiness or dizziness.
- 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. In severe cases, pneumonia or a pulmonary edema may develop. Aspiration hazard: in case of swallowing or vomiting danger of penetration into the lungs.

Other information: Product shows a general protoplasm effect and can be considered as a weak cytotoxin.

### Symptoms

In case of inhalation:  
After resorption: Headache, dizziness, inebriation, unconsciousness.  
High concentrations of vapours irritate the eyes and mucous membranes.

In case of ingestion:  
Nausea, vomiting, abdominal pain, gastrointestinal complaints, blood pressure drop.  
Following intake of large amounts: unconsciousness, coma, breathing paralysis (death).  
if swallowed or in the event of vomiting, risk of entering the lungs. Absorption can lead to kidney and liver damage.

After contact with skin:  
Prolonged/repetitive skin contact may cause skin defatting or dermatitis.



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## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Toxic effect on fishes and plankton.  
Algae toxicity:  
EC50 Green algae: >100 mg/L/72h.  
Bacterial toxicity:  
EC50: >100 mg/L  
EC5 Pseudomonas putida: 1050 mg/L/16h.  
Daphnia toxicity:  
EC50 Daphnia magna (Big water flea): 9714 mg/L/48h.  
Fish toxicity:  
LC50 Lepomis macrochirus (bluegill): 1400 mg/L/96h.  
LC50 Leuciscus idus test: 8970 mg/L/48h.  
LC50 Pimephales promelas (fathead minnow): 9640 mg/L/96h.

### 12.2. Persistence and degradability

Further details: Product is readily biodegradable.

Oxygen demand:

BOD 5: 53 %

ThOD: 72 %

### 12.3 Bioaccumulative potential

Bioconcentration factor (BCF):  
Bio-accumulation is not to be expected ( $\log P(o/w) < 1$ ).

### 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

General information: Do not allow to penetrate into soil, waterbodies 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 contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

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### SECTION 14: Transport information

#### 14.1 UN number

ADR/RID, IMDG, IATA: UN 1219

#### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA: UN 1219, ISOPROPANOL (ISOPROPYL ALCOHOL)

#### 14.3 Transport hazard class(es)

ADR/RID: Class 3, Code: F1

IMDG: Class 3, Subrisk -

IATA: Class 3



#### 14.4 Packing group

ADR/RID, IMDG, IATA: II

#### 14.5 Environmental hazards

Marine pollutant: No

#### 14.6 Special precautions for user

##### Land transport (ADR/RID)

Warning board: ADR/RID: Kemmler-number 33, UN number 1219  
Hazard label: 3  
Special provisions: 601  
Limited quantities: 1L  
EQ: E2  
Contaminated packaging - Instructions: P001 - IBC02 - R001  
Special provisions for packing together: MP19  
Portable tanks - Instructions: T4  
Portable tanks - Special provisions: TP1  
Tank coding: LGBF  
Tunnel restriction code: D/E

##### Sea transport (IMDG)

EmS: F-E, S-D  
Special provisions: -  
Limited quantities: 1L  
EQ: E2  
Contaminated packaging - Instructions: P001  
Contaminated packaging - Provisions: -  
IBC - Instructions: IBC02  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: T4  
Tank instructions - Provisions: TP1  
Stowage and handling: Category B.  
Properties and observations: Colourless, mobile liquid. Flashpoint: 12°C c.c. Explosive limits: 2% to 12%. Miscible with water.

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### Air transport (IATA)

Hazard:	Flammable liquid
EQ:	E2
Passenger Ltd.Qty.:	Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L
Passenger:	Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L
Cargo:	Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L
Special Provisioning:	A180
ERG:	3L

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 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: •2YE

#### National regulations - EC member states

Volatile organic compounds (VOC):

100 % by weight = 780 g/L

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



Signal word: **Danger**

Hazard statements: H336 May cause drowsiness or dizziness.

Precautionary statements: P261 Avoid breathing vapours.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

### 15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has been carried out.

## SECTION 16: Other information

### Further information

Literature: ICSC 0554

Reason of change: Changes in section 1: substance name, synonymes

Changes in section 14: IMDG 2015

Date of first version: 19/8/2010

### Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

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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.