

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

AIR CONDITIONING DISINFECTANT SPRAY - 300 ML

Version 1.0

Revision Date 11.06.2010

Print Date 15.06.2010

DE / EN

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information**

Commercial Product Name : AIR CONDITIONING DISINFECTANT SPRAY - 300 ML

Product code : 089376410
MSDS-Identcode : 10000871
Company : A. Wuerth GmbH & Co. KG
Reinhold-Würth-Str. 12-17
74653 Künzelsau
Germany

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Responsible/issuing person : prodsafe.wurth@technidata.com
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+49 (0)7940 15 2552

Use : Disinfectants

2. HAZARDS IDENTIFICATION

F+ Extremely flammable
Xi Irritant

Extremely flammable.
Irritating to eyes.
Vapours may cause drowsiness and dizziness.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous components**

Chemical Name	CAS-No.	EC-No. / Registration number	Classification	Concentration [%]
propan-2-ol	67-63-0	200-661-7	F; R11 R67 Xi; R36	>= 60 - < 65

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Chemical Name	CAS-No.	EC-No. / Registration number	Classification	Concentration [%]
bronopol (INN)	52-51-7	200-143-0	Xn; R21/22 Xi; R37/38-R41 N; R50	0,1782

For the full text of the R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

- General advice : If you feel unwell, seek medical advice (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
- Inhalation : If breathed in, move person into fresh air. In the case of inhalation of aerosol/mist consult a physician if necessary. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Skin contact : In case of contact, immediately flush skin with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician.
- Eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion : If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO₂), Dry powder, Water spray jet
- Specific hazards : Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products may be formed under fire conditions (see section 10). Exposure to decomposition products may be a hazard to health.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

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- Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Pay attention to flashback. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.
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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Remove all sources of ignition. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Immediately evacuate personnel to safe areas. Avoid inhalation of vapour or mist. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- Environmental precautions : Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods for cleaning up : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Clean contaminated surface thoroughly.
-

7. HANDLING AND STORAGE**Handling**

- Advice on safe handling : Limit the stocks at work place. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Do not spray on a naked flame or any other incandescent material. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Take precautionary measures against static discharges. For personal protection see section 8.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Keep away from heat and sources of ignition. Do not smoke. No sparking tools should be used. Electrical equipment should be protected to the appropriate standard.
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Dust explosion class : not applicable

Storage

Requirements for storage areas and containers : Store in original container. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Keep containers tightly closed in a dry, cool and well-ventilated place. Please observe the storage instructions for aerosols!

To be observed: TRG 300

Advice on common storage : Incompatible with oxidizing agents.

Keep away from food, drink and animal feedingstuffs. Do not store together with oxidizing and self-igniting products.

German storage class : 2B, Compressed Gas (Aerosol cans)

Other data : No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

Components	CAS-No.	Control parameters	Basis	Update
propan-2-ol	67-63-0	AGW: 500 mg/m ³ , 200 ppm DFG, Y,	DE TRGS 900	2006-01-01

Other information on limit values: see chapter 16

Biological occupational exposure limits - TRGS903

Substance name	CAS-No.	Control parameters	Sampling time	Update
propan-2-ol	67-63-0	Acetone: 50 mg/l (B) Acetone: 50 mg/l (U)	b b	2004-08-01 2004-08-01

Remarks:

- a No time limit
- b Immediately after exposition or after working hours
- c In case of long-term exposition: after more than one shift
- d Before the next shift

Engineering measures

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Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
Respirator with combination filter for vapour/particulate (EN 141).
Respirator with filter type A

Hand protection

Material : Nitrile rubber
Break through time : > 480 min

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Flame retardant antistatic protective clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Do not inhale aerosol.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Follow the skin protection plan.
Wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIESAppearance

Form : aerosol
Colour : colourless
Odour : characteristic

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Ignition temperature	: 425 °C
Lower explosion limit	: 2,0 %(V)
Upper explosion limit	: 12 %(V)
Vapour pressure	: 6.000 hPa
Density	: 0,88 g/cm ³
Water solubility	: completely miscible

10. STABILITY AND REACTIVITY

Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: Oxidizing agents
Hazardous decomposition products	: Carbon dioxide (CO ₂), Carbon monoxide
Hazardous reactions	: Vapours may form explosive mixtures with air. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.
Stability	: No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATIONAcute oral toxicity:

propan-2-ol	: LD50 (rat): 5.045 mg/kg
bronopol (INN)	: LD50 (rat): 180 mg/kg

Acute inhalation toxicity:

propan-2-ol	: LC50 (rat): 46,5 mg/l Exposure time: 4 h
bronopol (INN)	: Inhalation of aerosols may cause irritation to mucous membranes.

Acute dermal toxicity:

propan-2-ol	: LD50 (rabbit): 12.800 mg/kg
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Skin irritation : May irritate skin.

Eye irritation : Irritating to eyes.

Further information : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Vapours may cause drowsiness and dizziness.

12. ECOLOGICAL INFORMATIONToxicity to fish:

propan-2-ol : LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l
Exposure time: 96 h

bronopol (INN) : no data available

Toxicity to daphnia and other aquatic invertebrates.:

propan-2-ol : EC50 (Daphnia magna (Water flea)): 13.299 mg/l
Exposure time: 48 h

Adsorbed organic bound halogens (AOX) : not included

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

13. DISPOSAL CONSIDERATIONS

Advice on disposal and packaging : Disposal:
In accordance with local and national regulations. This material and its container must be disposed of as hazardous waste. Waste codes should be assigned by the user based on the application for which the product was used.
The following Waste Codes are only suggestions:

Waste Code (EWC) : Waste Key (unused product):
160504, gases in pressure containers (including halons) containing dangerous substances

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Waste key (used product):

160504, gases in pressure containers (including halons) containing dangerous substances

Disposal of uncleaned packaging

: Waste key (uncleaned packaging):

150110, packaging containing residues of or contaminated by dangerous substances

Note: Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum. Please ensure aerosol cans are sprayed completely empty (including propellant) Containers that have not been emptied in compliance with regulations are regarded as hazardous waste. Dispose of as unused product.

14. TRANSPORT INFORMATION**ADR**

UN-Number : 1950
Description of the goods : AEROSOLS
Class : 2
Packing group : --
Classification Code : 5F
Labels : 2.1
Limited quantity : LQ2
Tunnel restriction code : (D)
Environmentally hazardous : no

RID

UN-Number : 1950
Description of the goods : AEROSOLS
Class : 2
Packing group : --
Classification Code : 5F
Hazard identification No : 23
Labels : 2.1
Limited quantity : LQ2
Environmentally hazardous : no

IATA

UN-Number : 1950
Description of the goods : Aerosols, flammable
Class : 2.1
Packing group : --
Labels : 2.1
Packing instruction (cargo aircraft) : 203
Environmentally hazardous : no
Packing instruction (passen-

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ger aircraft)
Packing instruction (LQ) : Y203

IMDG

UN-Number : 1950
Description of the goods : AEROSOLS

Class : 2.1
Packing group : --
Labels : 2.1
EmSNumber 1 : F-D
EmS Number 2 : S-U

Marine pollutant : no

15. REGULATORY INFORMATIONLabelling according to EC Directives**1999/45/EC**

Symbol(s) : F+ Extremely flammable
Xi Irritant

R-phrase(s) : R12 Extremely flammable.
R36 Irritating to eyes.
R67 Vapours may cause drowsiness and dizziness.

S-phrase(s) : S23 Do not breathe spray.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35 This material and its container must be disposed of in a safe way.
S51 Use only in well-ventilated areas.

Special labelling of certain mixtures : Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any other incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

Further information : In the EU, this product falls under the Directive on biocide products 98/8/EC. Reserved for industrial and professional use.

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VOC : Directive 1999/13/EC
60 %
VOC content less water: 530,4 g/l

Directive (96/82/EC) : Extremely flammable Quantity 1 Quantity 2
10 t 50 t

In accordance with Regulation (EC) No. 648/2004 on detergents : preservation agents:
2-BROMO-2-NITROPROPANE-1,3-DIOL

Information in accordance with Directive 1998/8/EC, Article 20(3):

Registration number : N-11103
Type of product : 02

Active ingredient	CAS-No.	Value
		[g/100g]
bronopol (INN)	52-51-7	0,18

National legislation

Water contaminating class (Germany) : WGK 1 (slightly water endangering)

Other regulations : Observe national used protectional regulations.

16. OTHER INFORMATION
Full text of R-phrases referred to under sections 2 and 3

R11 Highly flammable.
R12 Extremely flammable.
R21/22 Harmful in contact with skin and if swallowed.
R36 Irritating to eyes.
R37/38 Irritating to respiratory system and skin.
R41 Risk of serious damage to eyes.
R50 Very toxic to aquatic organisms.
R67 Vapours may cause drowsiness and dizziness.

Other information

DFG Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).
Y When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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