

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Big Spray new**

Revision date: 04.05.2017

Product code: ANTI005

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Big Spray new

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**Surface disinfectant  
For professional use.**Uses advised against**

Do not use on alcohol sensitive materials (for example acrylic, paint or pickling).

**1.3. Details of the supplier of the safety data sheet**

Company name:	ANTISEPTICA Dr. Hans Joachim Molitor GmbH		
Street:	Carl-Friedrich-Gauß-Straße 7		
Place:	D-50259 Pulheim/Brauweiler		
Telephone:	++49 (0)2234 / 98466-0	Telefax:	++49 (0)2234 / 98466-11
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**1.4. Emergency telephone number:**Giftinformationszentrum NORD Universität Göttingen, giznord@giz-nord.de  
Telephone: ++49 (0)551 / 1 92 40**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:  
Flammable liquid: Flam. Liq. 2  
Serious eye damage/eye irritation: Eye Irrit. 2  
Specific target organ toxicity - single exposure: STOT SE 3  
Hazardous to the aquatic environment: Aquatic Chronic 3  
Hazard Statements:  
Highly flammable liquid and vapour.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.  
Harmful to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Signal word:** Danger**Pictograms:****Hazard statements**

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
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smoking.

P260

Do not breathe vapour/.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314

Get medical advice/attention if you feel unwell.

P273

Avoid release to the environment.

**2.3. Other hazards**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
67-63-0	propan-2-ol; isopropanol			30 - < 100 %
	200-661-7	603-117-00-0	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
64-17-5	ethanol, ethyl alcohol			20 - < 30 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H319			
1802181-67-4	polyhexamethylene biguanide hydrochloride			< 0.1 %
	Acute Tox. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1B, STOT SE 3, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 10); H330 H302 H318 H317 H335 H400 H410			

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**

Provide fresh air.

**After contact with skin**

Remove contaminated, saturated clothing immediately.

After contact with skin, wash immediately with plenty of water.

In case of skin irritation, consult a physician.

**After contact with eyes**

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

**After ingestion**

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water.

**4.2. Most important symptoms and effects, both acute and delayed**

irritation of the mucous membranes

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**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**

Extinguishing powder, alcohol resistant foam  
Water spray jet,  
Carbon dioxide

**5.2. Special hazards arising from the substance or mixture**

Vapours are heavier than air, spread along floors and form explosive mixtures with air.  
In case of fire dangerous vapors / gases can be released  
Carbon monoxide, Carbon dioxide

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment. Provide adequate ventilation. Keep away from sources of ignition - No smoking.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up**

Wipe up with absorbent material (eg. cloth, fleece). Suitable material for taking up: Universal binder, Sand.  
Provide adequate ventilation.

**6.4. Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Do not breathe gas/fumes/vapour/spray. Application maximum: 50 ml/m<sup>2</sup> floor space (TRGS 525). Ensure good ventilation at the workspace. Keep the container tightly closed. Allow hot surfaces to cool down before disinfecting. Before using electrical devices they have to be completely dry. Do not use on alcohol sensitive materials (for example acrylic, paint or pickling).

**Advice on protection against fire and explosion**

Vapours can form explosive mixtures with air. Ensure a good ventilation also in the floor area. Vapours are heavier than air. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

**Further information on handling**

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. Change contaminated, saturated clothing.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep only in the original container in a cool, well-ventilated place. Avoid: frost.  
Keep out of the reach of children. Keep locked up and out of reach of children.

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**Advice on storage compatibility**

Keep away from food, drink and animal feedingstuffs.

**Further information on storage conditions**

Protect from sunlight.

**7.3. Specific end use(s)**

We have no knowledge of specific end uses.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

**DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
67-63-0	propan-2-ol; isopropanol			
Worker DNEL, long-term		inhalation	systemic	500 mg/m³
Worker DNEL, long-term		dermal	systemic	888 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	89 mg/m³
Consumer DNEL, long-term		dermal	systemic	319 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	26 mg/kg bw/day
64-17-5	ethanol, ethyl alcohol			
Worker DNEL, long-term		dermal	systemic	343 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	950 mg/m³
Worker DNEL, acute		inhalation	local	1900 mg/m³
Consumer DNEL, acute		inhalation	local	950 mg/m³
Consumer DNEL, long-term		inhalation	systemic	114 mg/m³
Consumer DNEL, long-term		oral	systemic	87 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	206 mg/kg bw/day

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**PNEC values**

CAS No	Substance	
Environmental compartment		Value
67-63-0	propan-2-ol; isopropanol	
Freshwater		140.9 mg/l
Marine water		140.9 mg/l
Freshwater sediment		552 mg/l
Marine sediment		552 mg/l
Micro-organisms in sewage treatment plants (STP)		2251 mg/l
Soil		28 mg/l
64-17-5	ethanol, ethyl alcohol	
Freshwater		0.96 mg/l
Marine water		0.79 mg/kg
Freshwater sediment		3.6 mg/kg
Micro-organisms in sewage treatment plants (STP)		580 mg/l
Soil		0.63 mg/kg

**8.2. Exposure controls****Protective and hygiene measures**

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately.  
Wash hands before breaks and after work. Avoid contact with eyes and skin.

**Eye/face protection**

Suitable eye protection: goggles

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Chemical protective gloves must specifically chosen for each workplace depending on the concentration and amount of hazardous substances, temperature and contact time.

Recommendation:

Butyl caoutchouc (butyl rubber)

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

To prevent skin irritation in the professional field - regardless of actual contact with disinfectants - it is recommended to use: • a fast absorbing skin care cream in between if necessary. • a greasy cream after washing at the end of work or before breaks.

**Respiratory protection**

Usually no personal respiratory protection necessary. In case of inadequate ventilation wear respiratory protection. (Wear a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387).)

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: liquid  
Colour: colourless  
Odour: characteristic

**Test method**

pH-Value (at 20 °C): approx. 6

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**Changes in the physical state**

Melting point:	Ethanol: -144.5 °C
Initial boiling point and boiling range:	Ethanol: 78 °C
Flash point:	21.5 °C DIN 51755
Lower explosion limits:	Ethanol: 2.5 vol. %
Upper explosion limits:	Ethanol: 15 vol. %
Vapour pressure:	Ethanol: 59 hPa
Density:	approx. 0.9 g/cm <sup>3</sup>
Water solubility:	easily soluble
Partition coefficient:	not applicable
Viscosity / dynamic:	not determined
Evaporation rate:	not determined

**9.2. Other information**

Solid content:	not determined
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**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4. Conditions to avoid**

Safe handling: see section 7

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

The product is chemically stable under recommended conditions of storage, use and temperature.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

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**Acute toxicity**

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
67-63-0	propan-2-ol; isopropanol					
	oral	LD50 mg/kg	5840	Rat		
	dermal	LD50 mg/kg	13900	Rabbit		
	inhalative (4 h) vapour	LC50	37.5 mg/l	Rat		OECD 403
64-17-5	ethanol, ethyl alcohol					
	oral	LD50 mg/kg	6200	Rat	IUCLID	
	inhalative (4 h) vapour	LC50	95,6 mg/l		IUCLID	
1802181-67-4	polyhexamethylene biguinide hydrochloride					
	oral	LD50 mg/kg	>400	Rat		OECD 423
	inhalative (4 h) vapour	LC50	mg/l			
	inhalative (4 h) aerosol	LC50 mg/l	0.322	Rat		OECD 403
	inhalative (4 h) gas	LC50	ppm			

**Irritation and corrosivity**

Ethanol:

OECD 404 (Acute Dermal Irritation/Corrosion) Rabbit

Not an irritant.

OECD 405 (Acute Eye Irritation/Corrosion) Rabbit

slightly irritant

Polyhexamethylenbiguanid-HCl

In case of skin contact: OECD 404 Rabbit - slightly irritant

Risk of serious damage to eyes. OECD 405 Rabbit

**Sensitising effects**

Ethanol:

OECD 429 (Skin Sensitisation - Local Lymph Node Assay) Mouse

not sensitising.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Ethanol:

OECD 471 (Bacterial Reverse Mutation Test) Salmonella Typhimurium negative.

OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test) negative.

OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) Mouse negative.

OECD 473 (In Vitro Mammalian Chromosome Aberration Test) negative.

OECD 471 (Bacterial Reverse Mutation Test) negative.

**STOT-repeated exposure**

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Ethanol:

OECD 408 (Repeated Dose 90- Day Oral Toxicity Study in Rodents) Rat

NOAEL 1730 mg/kg/d

OECD 403 (Acute Inhalation Toxicity) Rat

&gt;20 mg/l

**SECTION 12: Ecological information****12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
67-63-0	propan-2-ol; isopropanol					
	Acute fish toxicity	LC50 mg/l	9640	96 h	Pimephales promelas (fathead minnow)	
	Acute algae toxicity	ErC50 mg/l	>100	72 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50 mg/l	9714	48 h	Daphnia magna (Big water flea)	
	Acute bacteria toxicity	(> 100 mg/l)				
64-17-5	ethanol, ethyl alcohol					
	Acute fish toxicity	LC50 mg/l	13000	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute crustacea toxicity	EC50 mg/l	12340	48 h	Daphnia magna	
1802181-67-4	polyhexamethylene biguinide hydrochloride					
	Acute fish toxicity	LC50 mg/l	0.321	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50 mg/l	0.0206	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50 mg/l	0.156	48 h	Daphnia magna (Big water flea)	
	Fish toxicity	NOEC mg/l	0.00498	28 d	Pimephales promelas (fathead minnow)	
	Crustacea toxicity	NOEC mg/l	0.00544	21 d	Daphnia magna (Big water flea)	

**12.2. Persistence and degradability**

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
67-63-0	propan-2-ol; isopropanol			
		53%	5	
	Readily biodegradable.			
64-17-5	ethanol, ethyl alcohol			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	97%		

**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
67-63-0	propan-2-ol; isopropanol	0.05
64-17-5	ethanol, ethyl alcohol	-0,32



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**BCF**

CAS No	Chemical name	BCF	Species	Source
64-17-5	ethanol, ethyl alcohol	3.2		

**12.4. Mobility in soil**

Ethanol: No data available

Isopropanol: The product is mobile in an aqueous environment.

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

Water hazard class (WGK): 1

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

**Waste disposal number of waste from residues/unused products**

070604 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; other organic solvents, washing liquids and mother liquors; hazardous waste

**Waste disposal number of contaminated packaging**

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

**Contaminated packaging**

Non-contaminated packages may be recycled.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number:**

UN 1987

**14.2. UN proper shipping name:**

ALCOHOLS, N.O.S. (Isopropanol, Ethanol )

**14.3. Transport hazard class(es):**

3

**14.4. Packing group:**

II

Hazard label:

3



Classification code:

F1

Special Provisions:

274 601 640D

Limited quantity:

1 L

Excepted quantity:

E2

Transport category:

2

Hazard No:

33

Tunnel restriction code:

D/E

**Marine transport (IMDG)****14.1. UN number:**

UN 1987

**14.2. UN proper shipping name:**

ALCOHOLS, N.O.S. (Ethanol, Isopropanol)

**14.3. Transport hazard class(es):**

3

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**14.4. Packing group:**

III

Hazard label:

3



Special Provisions:

223, 274

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-E, S-D

**Air transport (ICAO-TI/IATA-DGR)****14.1. UN number:**

UN 1987

**14.2. UN proper shipping name:**

ALCOHOLS, N.O.S. (Ethanol, Isopropanol)

**14.3. Transport hazard class(es):**

3

**14.4. Packing group:**

III

Hazard label:

3



Special Provisions:

A3 A180

Limited quantity Passenger:

10 L

Passenger LQ:

Y344

Excepted quantity:

E1

IATA-packing instructions - Passenger:

355

IATA-max. quantity - Passenger:

60 L

IATA-packing instructions - Cargo:

366

IATA-max. quantity - Cargo:

220 L

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2010/75/EU (VOC):

62.57 %

2004/42/EC (VOC):

61.467 %

**Additional information**

To follow:

Regulation (EC) No. 648/2004 (Detergents regulation)

Classification according to Regulation (EC) No 1272/2008 [CLP]

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

**National regulatory information**

Water contaminating class (D):

1 - slightly water contaminating

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 1,7,8,9,10,11,12,13,14,15.

**Relevant H and EUH statements (number and full text)**

H225

Highly flammable liquid and vapour.

H302

Harmful if swallowed.

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H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Further Information**

The data contained in this safety data sheet is based on our current knowledge and experience and describe the product with regard to safety requirements. The information should not be regarded in any way as a description of the product's properties (product specification). Agreed characteristics nor the suitability of the product for a specific purpose can not be derived from the information in the SDS. We will advise you as to whether and under what circumstances, the preparation is suitable for a defined purpose. Proprietary rights and existing laws and regulations must be respected by the receiver of our product.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*