

**Safety Data Sheet**

according to UK REACH Regulation

Revision date: 02.05.2023

Big Spray new

Product code: ANTI005

Page 1 of 11

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
e-mail:	sdb@antiseptica.com		
Contact person:	Scientific Technical Department Berlin	Telephone:	++49 (0)30 / 77992-208
e-mail:	sdb@antiseptica.com		
Internet:	www.antiseptica.com		

1.4. Emergency telephone number:Giftnformationszentrum 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****GB CLP Regulation**Flam. Liq. 2; H225
Eye Irrit. 2; H319
STOT SE 3; H336
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

propan-2-ol; ethanol

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 smoking.
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**Safety Data Sheet**

according to UK REACH Regulation

Big Spray new

Revision date: 02.05.2023

Product code: ANTI005

Page 2 of 11

P260	Do not breathe vapours/spray.
P280	Wear protective gloves/protective clothing/eye 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 (GB CLP Regulation)	
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	
78-93-3	butanone; ethyl methyl ketone	0.1 - < 1 %
	201-159-0 606-002-00-3	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066	
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, Aquatic Chronic 1; H330 H302 H318 H317 H335 H400 H410	

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
67-63-0	200-661-7	propan-2-ol; isopropanol	30 - < 100 %
		inhalation: LC50 = 37.5 mg/l (vapours); dermal: LD50 = 13900 mg/kg; oral: LD50 = 5840 mg/kg	
64-17-5	200-578-6	ethanol, ethyl alcohol	20 - < 30 %
		inhalation: LC50 = 95,6 mg/l (vapours); oral: LD50 = 6200 mg/kg	
1802181-67-4		polyhexamethylene biguanide hydrochloride	< 0.1 %
		inhalation: LC50 = mg/l (vapours); inhalation: LC50 = 0.322 mg/l (dusts or mists); inhalation: LC50 = ppm (gases); oral: LD50 = >400 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10	

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).

**Safety Data Sheet**

according to UK REACH Regulation

Revision date: 02.05.2023

Big Spray new

Product code: ANTI005

Page 3 of 11

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

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****General advice**

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**Other information**

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**

**Safety Data Sheet**

according to UK REACH Regulation

Big Spray new

Revision date: 02.05.2023

Product code: ANTI005

Page 4 of 11

Advice on safe handling

Do not breathe gas/fumes/vapour/spray. Application maximum: 50 ml/m² 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.

Advice on general occupational hygiene

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.

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 locked up and out of reach of children.

Hints on joint storage

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 ³	fibres/ml	Category	Origin
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

**Safety Data Sheet**

according to UK REACH Regulation

Big Spray new

Revision date: 02.05.2023

Product code: ANTI005

Page 5 of 11

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
67-63-0	propan-2-ol; isopropanol			
Worker DNEL, long-term		inhalation	systemic	500 mg/m ³
Worker DNEL, long-term		dermal	systemic	888 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	89 mg/m ³
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/m ³
Worker DNEL, acute		inhalation	local	1900 mg/m ³
Consumer DNEL, acute		inhalation	local	950 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	114 mg/m ³
Consumer DNEL, long-term		oral	systemic	87 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	206 mg/kg bw/day

PNEC values

CAS No	Substance	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**Individual protection measures, such as personal protective equipment****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)

**Safety Data Sheet**

according to UK REACH Regulation

Big Spray new

Revision date: 02.05.2023

Product code: ANTI005

Page 6 of 11

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 respirative 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

Melting point/freezing point:	Ethanol: -114,5 °C	
Boiling point or initial boiling point and boiling range:	Ethanol: 78 °C	
Lower explosion limits:	Ethanol: 2.5 vol. %	
Upper explosion limits:	Ethanol: 15 vol. %	
Flash point:	21.5 °C	DIN 51755
pH-Value (at 20 °C):	approx. 6	
Water solubility:	easily soluble	
Partition coefficient n-octanol/water:	not applicable	
Vapour pressure:	Ethanol: 59 hPa	
Density:	approx. 0.9 g/cm ³	

9.2. Other information**Other safety characteristics**

Evaporation rate:	not determined
Solid content:	not determined
Viscosity / dynamic:	not determined

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

**Safety Data Sheet**

according to UK REACH Regulation

Big Spray new

Revision date: 02.05.2023

Product code: ANTI005

Page 7 of 11

11.1. Information on hazard classes as defined in GB CLP Regulation**Acute toxicity**

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

Irritation and corrosivity

Ethanol:

OECD 404 (Acute Dermal Irritation/Corrosion) Rabbit

non-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

**Safety Data Sheet**

according to UK REACH Regulation

Big Spray new

Revision date: 02.05.2023

Product code: ANTI005

Page 8 of 11

Ethanol:

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

NOAEL 1730 mg/kg/d

OECD 403 (Acute Inhalation Toxicity) Rat

>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	(EC50 mg/l)	> 100			
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

**Safety Data Sheet**

according to UK REACH Regulation

Big Spray new

Revision date: 02.05.2023

Product code: ANTI005

Page 9 of 11

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

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 UK REACH.

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

Water hazard class: 1

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

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

List of Wastes Code - 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

List of Wastes Code - 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 or ID 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

**Safety Data Sheet**

according to UK REACH Regulation

Big Spray new

Revision date: 02.05.2023

Product code: ANTI005

Page 10 of 11

Excepted quantity: E2
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

Marine transport (IMDG)

14.1. UN number or ID 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: 223, 274
Limited quantity: 5 L
Excepted quantity: E1
EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID 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**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

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

**Safety Data Sheet**

according to UK REACH Regulation

Big Spray new

Revision date: 02.05.2023

Product code: ANTI005

Page 11 of 11

Water hazard class (D):

1 - slightly hazardous to water

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,7,9,10,11,12,13,14,15.

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H336	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
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.
EUH066	Repeated exposure may cause skin dryness or cracking.

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.

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